# THE JOURNAL OF PHYSIOLOGY

# AUTHOR AND SUBJECT INDEXES

to Volumes 116 to 134

Supplied free to subscribers to The Journal of Physiology, sold separately, price 30s

LONDON
CAMBRIDGE UNIVERSITY PRESS

#### PUBLISHED BY

#### THE SYNDIOS OF THE CAMBRIDGE UNIVERSITY PRESS

Bentley House, 200 Euston Road, London, N W 1 American Branch 32 East 57th Street, New York 22, N Y

Printed in Great Britain at the University Press, Cambridge (Brooke Crutchley, University Printer)

# AUTHOR INDEX

to Volumes 116 to 134

### PREFACE TO AUTHOR INDEX

THIS Author Index to Volumes 116–134 of the Journal of Physiology has been compiled in the same manner as were the previous Indexes All the papers written by an author, whether alone or in collaboration, are given under his name in order of publication. A paper by more than one author appears under each of its authors, with its full title and reference, and the original sequence of the authors' names is preserved, in order, however, to avoid the repetition of the marginal name, the sequence is indicated by the positions of the comma, the dash and the word 'and'

Papers in the *Proceedings of the Physiological Society* can be recognized by the fact that their page reference is followed by the letter P Those published by title only are indicated by (T) The year given is that in which the *Proceedings* were published, and is not necessarily that in which the paper was presented at a meeting of the Society

# INDEX OF AUTHORS

Аввотт, В С	and Bigland, Brenda The physiological cost of negative work	117, 17 <i>P</i> , 1952
77	Potassium exchange in frog muscla and Wilkie, D. R. The relation between velocity of	117, 24 <i>P</i> , 1952
,	shortening and the tension length curve of skeletal muscle	117, 26 <i>P</i> , 1952
",	and Aubert, X M The force exerted by active striated muscle during and after change of length	117, 77, 1952
15	, Bigland, Brenda and Ritchie, J. M. The physio logical cost of negative work and Bigland, Brenda. The effects of force and speed.	<b>117,</b> 380, 1952
,	changes during negative work	118, 50 <i>P</i> , 1952
**	and Lowy, J Mechanical properties of Mytilus muscle	120, 50 <i>P</i> , 1953
"	and Wilkie, D R The relation between velocity of shortening and the tension length curve of skeletal muscle	120, 214, 1953
"	and Bigland, Brenda The effects of force and speech changes on the rate of oxygen consump tion during negative work	120, 319, 1953
**	and Lowy, J Heat production in a smooth muscle	130, 25 <i>P</i> , 1955
"	and Lowy, J Early tension changes during con	
	traction of certain invertebrate muscles	133, 8P, 1956
"	and Lowy, J On the identity of the muscle constant a derived thermally and mechanically	133, 36P, 1956
Abrahams, V C	, Pickford, M and Watt, J A The effect on the urms flow of the dog of intracarotid injections of adrenaline and acetylcholine (T)	<b>120</b> , 8 <i>P</i> , 1953
,	and Pickford, Mary Simultaneous observations on urine flow and uterine activity in the conscious bitch	122, 56 <i>P</i> , 1953
**	and Pickford, Mary Simultaneous observations on the rate of urine flow and spontaneous uterine	122, 001 , 1000
	movements in the dog, and their relationship to	
"	posterior lobe activity and Pickford, Mary Observations on the flow of	126, 329, 1954
	fluid through the ureter of the dog and Pickford, Mary Observations on a central	128, 82P, 1955
"	ant agonism between adrenaline and acety lcholine and Pickford, Mary The effect of anti-cholin- esterases injected into the supraoptic nuclei of	131, 712, 1958
	chloralosed dogs on the release of the oxytocic factor of the posterior pituitary	133, 330, 1956
Acheson, G H	and Remolina, J The temporal course of the effects of postganglionic axotomy on the inferior mesen-	
"	teric ganglion of the cat  Dawes, G. S. and Mott, Joan C. The relation of the  Consumption of foetal and newborn lambs to	127, 603, 1955
	the arterial O <sub>2</sub> saturation	133, 11 P, 1956
ACLAND, J D	The determination of serum protein bound iodine using an alkaline incineration method	128, 61 <i>P</i> , 1955
I		PAI

_	• • • • • • • • • • • • • • • • • • • •	
ACLAND, J D	Trichloroacetic acid its interference with the paper chromatography of thyroxine and its removal from aqueous solution by electrolytic desalting (T) and Gould, A H Normal variation in the count of	<b>128,</b> 69 P, 1955.
	circulating eosinophils in man	<b>133, 4</b> 56, 1956
Adam, H M	and Spencer, $K \to V$ A method for the estimation of histamine in plasma $(T)$	117, 32 <i>P</i> , 1952
Adam, J M	and Ferres, Helen $M$ Observations on oral and rectal temperatures in the humid tropics and in a temperate climate	<b>125,</b> 21 <i>P</i> , 1954
Adams, C E	, Hunter, G L and Rowson, L E Maternal in fluence on transplanted eggs (T)	<b>125,</b> 15 <i>P</i> , 1954.
ADRIAN, E D	Synchronized discharges from the Organ of Jacobsen Potential oscillations in the olfactory organ	126, 28 P, 1954. 128, 21 P, 1955
Adrian, R H	The effect of K, Rb and Cs on the resting potential of frog muscle (T)  The effect of internal and external potassium concentration on the membrane potential of frog	129, 39 <i>P</i> , 1955
	muscle	133, 631, 1956
Agar, W T	, $Hird$ , $F$ $J$ $R$ and $Sidhu$ , $G$ $S$ The active absorption of amino acids by the intestine	121, 255, 1953
Ainsworth, M	and Eveleigh, $J$ W An integrating scap film flow meter	<b>124,</b> 6 <i>P</i> , 1954
AKCASU, A.	, Sinha, Y K and West, G B Acetylcholine and benzoylcholine	117, 41 <i>P</i> , 1959
Aksoy, M	, Bird, G W G, Lehmann, H, Mourant, A E, Thein, H and Wickremasinghe, R L Haemo globin E in Asia	<b>130</b> , 56 <i>P</i> , 1955
Alanis, Jesus	Combined reflex and direct current stimulation of motor neurones (T)	117, 44 <i>P</i> , 1959
"	and Matthews, B H C The mechano receptor properties of central neurones  Effects of direct current on motor neurones	117, 59 P, 1952. 120, 569, 1953
Albe Fessard, D	,Buser, P and Fessard, A Complex wave patterns from the electric lobe of Torpedo marmorata (T)	117, 9 <i>P</i> , 1952.
ALEXANDER	and Frazer, J F D Interchangeability of diet and light in rat breeding	116 50 7 2050
D PAULINE	and Frazer, J F D The influence of diet on the	116, 50P, 1952
,,	mating of rats, Andrews, R. D., Huggett, A. St. G., Nixon, D. A.	117 69P, 1952
"	and Widdas, W F Placental production of glucose and fructose in the sheep	118, 58 <i>P</i> , 1952
"	Huggett, A St G, Nuxon, D A and Wuddas, W F Perfusion of the placenta in the sheep through the umbilical arteries	120 22P, 1953
"	and Nixon, D A In vitro studies on the perme ability of the amniotic membrane of the sheep	
	to fructose, glucose and mositol and Frazer, $J = F - D$ . The effect of spaying in the	120 26P 1953
	pregnant rat	124, 36P, 1954

		1111222 07 4	
2 TE 21 TE 1 TE 1 TE 1 TE 1 TE 1 TE 1 TE	ALEXANDER D PAULINE	, Andrews, R. D., Huggett, A. St. G., Nixon, D. A. and Widdas, W. F. The placental transfer of sugars in the sheep studies with radioactive sugar.  Huggett A. St. G., Nixon, D. A. and Widdas, W. F. The placental transfer of sugars in the sheep.	129, 352, 1955
E-	17	influence of concentration gradient upon the rates of hexose formation as shown in umbilical perfusion of the placenta, Nixon, D. A., Widdas, W. F. and Wohlzogen, F. X. Changes in composition of the foetal fluids of the	129, 367, 1955
2 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		sheep during gestation, Frazer, J F D and Lee, J The effect of steroids	129, 66P, 1955
, <del>_</del>	27	on the maintenance of pregnancy in the spayed rat	130, 148, 1955
The s	**	Nixon, D. A., Widdas, W. F. and Wohlzogen, F. X. Urme production in the foetal sheep	130, 13 <i>P</i> , 1955
- 12-1	"	Huggett A St G, Nixon, D A and Widdae, W F The collection of foetal urine in the sheep (T)	132, 3 <i>P</i> , 1956
===	ALEXANDER, F	and Ash R W The effect of emotion and hormones on the concentration of glucose and eosinophils in horse blood	130, 703, 1955
	ALLESON, J T	and Whitfield I C Excitation and inhibition in the auditory pathway (T) and Whitfield I C The effect of strychnine on	134, 2 <i>P</i> , 1956
u."		inhibition in a sensory pathway	134, 12 <i>P</i> , 1956
= Let'	ALLEY, W J	Investigation of peripheral circulatory response to cold (T)	122, 79 <i>P</i> , 1953
== 11°+1	ALLEOV P R	A modified bronchoscope for the measurement of intracardiac pressure in dogs	132, 24 <i>P</i> , 1956
1.0 L	Allwood, M. J	and Burry, H S The effect of local temperature on blood flow in the human foot (T) and Burry, H S The effect of local temperature on blood flow in the human foot	118 68 <i>P</i> , 1952
III +	,	Foot blood flow records in the erect posture Distensibility of the venous bed of the foot in vivo	124, 345, 1954 127 6P, 1954 129 74P, 1955
₹ 1271 1231	Alvarez, H	and Caldeyro Barcia, P Investigations of the con tractility of the human uterus (T)	118, 13 <i>P</i> , 1952
T III "	ALVORD E C, Jr	and Fuortes, M G F Reflex activity of extensor motorumits following muscular afferent excitation and Fuortes, M G F A comparison of flexor re- flexes of cutaneous and muscular origin	122, 302 1953
116 *	AUBACHE X	Effect of botulinum toxin upon the superior	123, 251, 1954
117 co	27	cervical ganglion and Pobertson P A The pilomotor axon reflex (T) and Pobertson P A Nicotinic actions of M homo-	116, 9P, 1951
118 ×P	"	and 3 5-dibromo phenyl ethers of cholme (M.B.F. and D.B.F.)  , Perry W. L. M. and Robertson, P. A. The ganglio	118, 67 <i>P</i> , 1952
: 120 22P '	•	nic action of natural muscarine (T) and Lessin, A W In vitro effects of botulinum	110 59 P 1050
120 -0P	,	toxin (type D)  The action of Darmstoff on the rabbit ileum Separation of the longitudinal muscle of the	122 63P, 1953
124 30P 1		rabbit's ileum as a broadsheet	125, 53 <i>P</i> , 1954

AMBACHE, N	A method for extrinsic denervation of intestines and Lessin, A W Classification of intestinomotor	<b>127</b> , 14 <i>P</i> , 1954
"	drugs by means of type D botulinum toxin Irin, a smooth muscle contracting substance pre	<b>127, 449,</b> 195ə
	sent in rabbit iris	129, 65P, 1955
,,	Trigominomimetic action of iris extracts in rabbits and West, G B Presence of an unidentified pharm	<b>132</b> , 49 <i>P</i> , 1956
,,	acologically active substance in skin extracts	<b>133</b> 19 <i>P</i> , 1956
AMIN, A N	, Crawford, T B B and Gaddum, J H The distri- bution of substance P and 5 hydroxytryptamine in the central nervous system of the dog	<b>126</b> , 596, 1954
Amoroso, E C	Endometrial reactions in the sow (T)	117, 75P, 1952
,,	, Bell, F R and Lawn, A M Prehension, rumi nation and progression after lesions of the motor	
"	cortex in goats (Film) (T)  , Bell, F R and Rosenberg, H The relationship of the vasomotor and respiratory regions in the	<b>124</b> , 16 <i>P</i> , 1954
"	medulla oblongata of the sheep , Dawes, $G$ $S$ , $Mott$ , $Joan$ and $Renwick$ , $Barbara$ $R$	<b>126,</b> 86, 1954
	Occlusion of the ductus venosus in the mature foetal lamb	<b>129</b> , 64 <i>P</i> , 1955
Anand, B K	, Dua, S and Shoenberg, Kate Hypothalamic control of food intake in cats and monkeys	127, 143, 1955
"	and Dua, S Hypothalamic involvement in the pituitary adreno cortical response	<b>127,</b> 153, 1955
Ancill, R J	The blood volume of the normal guinea pig	<b>132, 4</b> 69, 1956
Anderson, A. J	and Maclagan, $N$ $F$ The isolation and estimation of normal urinary mucoproteins	125, 44 <i>P</i> , 1954
Anderson, D J	The recording of forces exerted during mastication $(T)$	123, 51 P, 1954
,, ,,	and Picton, D C Chewing in man (T) Respiratory changes during cooling in man (T)	131, 30 <i>P</i> , 1958 131, 30 <i>P</i> , 1958
Anderson, I	and Ferguson, I D A simple vibrator for kymo graph recording	116, 43 <i>P</i> , 1952
Anderson, J	A method for estimating Tm for phosphate in man	130, 268, 1955
Anderson, W F	The effect of 'Banthine' on human gastric motility and on pulse rate	121, 53P, 1953
Andersson, B	and McCann, S M Primary polydipsia produced by osmotic and electrical stimulation of the hypothalamus (Film) (T)	129, 33 <i>P</i> , 1955
,,	and $McCann$ , $S$ $M$ Hypothalamic control of water intake	129 44P, 1955
,,	and Jewell, P A The effects of continuous hydration upon the 'neurosecretory material in the hypothalamus of the dog (T)	133 41 P, 1956
Andjus, R K	and Smith, Audrey U Revival of hypothermic rats after arrest of circulation and respiration	123 66P, 1954
,,	and Smith, Audrey $U$ Reanimation of adult rate from body temperatures between 0 and $+2^{\circ}C$	128 446, 1955
,,	and Lovelock, $J \to \mathbb{R}$ Reanimation of rats from body temperatures between 0 and 1° C by microwave	128 541 1055
	diathermy Suspended animation in cooled, supercooled and	128 541 1955
"	frozen rats	128 547, 1955

Andrew, A. M.	, Boyd, I A and Roberts T D M Apparatus for the analysis of the stimulus response relationship	121, 31 <i>P</i> , 1953
**	and Roberts, T D M A pulse interval meter for	
	recording impulse frequency directly and Hale, A. J. An apparatus for freeze-drying	121, 31 P, 1953
21	tissue for histochemical investigation Action potentials from the frog colliculus	121, 36 <i>P</i> , 1953 130, 25 <i>P</i> , 1955
"	_	
ANDREW, B L	The innervation of the larvingeal mucosa of the frog	117 27P, 1952
n	The innervation of the medial ligament of the knee joint (T)	121, 56 <i>P</i> , 1953
**	A larvngeal pathway for aortic baroceptor impulses (T)	123, 39 <i>P</i> , 1953
"	The sensory innervation of the medial ligament of the knee joint	123, 241, 1954
77	A larvngeal pathway for aortic baroceptor im-	
,,	pulses Properties of the larvageal joint proprioceptors of	125, 352, 1954
	the rat (T)	126, 24 <i>P</i> , 1954
	Proprioception at the joint of the epiglottis of the	
	rat	126 507, 1954
n	The respiratory movements of the larvnx (T)	128, 13 <i>P</i> , 1955
,	The respiratory displacement of the larvax a study	
	of the innervation of accessory respiratory	120 454 3055
	muscles	130, 474, 1955
,	Motor unit activity in an accessory respiratory muscle	130, 1 <i>P</i> , 1955
n	The extrmsic neural control of the oe-ophagus during swallowing	132, 13 <i>P</i> , 1956
77	A functional analysis of the myelinated fibres of the	422
	superior larvingeal nerve of the rat	133, 420 1956
27	The nervous control of the cervical oesophagus of the rat during swallowing	134, 729 1956
Andrews, R D	Alexander D Pauline — Huggett, A St G,	
	Nixon D A and Widdas, W F Placental pro-	440
	duction of glucose and fructose in the sheep Alexander, D Pauline, —, Huggett, A St G,	118 58P 1952
,	Auxon, D A and Widdas W F The placental transfer of sugars in the sheep studies with	
	radioactive sugar	120 950 1055
Ampres II II	~	129, 352, 1955
ASDREWS, W. H.	H. A blood outflow recorder and Macarauth, B G Physiological and anatomical evidence of a hepatic arterial bepatic venous	117, 45P 1952
	shunt (T)	110 047 1050
•	Hecker P, Maegrath B G and Ritchie, H D	118, 24 <i>P</i> , 1952
	Technique of perfusion of the canine liver	122, 9P, 1953
79	, Hecker P Margrath, B G and Retcher, H D On direct connexions between hepatic artery and	100, 02 , 1000
	nepatic veins in the canine liver	122 51P, 1953
	, Hecker, R. Maegraith, B. G. and Ritchie, H. D.	011, 1933
,	Constriction within the canine hepatic venous tree , Hecker R and Maggrath B G The presence of	122, 53P, 1953
	autonomic relays within the liver	123 73P, 1954
,	Heder, R, Magrath B G and Ruchte H D The action of adrenaline L-noradrenaline acetyl	
	choline and other substances on the blood vessels of the perfused canine liver	
	barracea cuittie II.Cl.	128, 413, 1955

Andrews W H. H	, Maegrath, B G and Richards, T G Bromsulph thalein abstraction by perfused canine livers	<b>129,</b> 77 <i>P</i> , 1955
"	and Richards, T G Removal of bromsulphthalein by the portal vein and the hepatic artery in the anaesthetized dog	<b>131</b> , 21 <i>P</i> , 1956.
,,	, Maegrath, B G and Richards, T G The effect upon bromsulphalein extraction of the rate and distribution of blood flow in the perfused canne	131, 669, 1956
,	and Richards, T G Studies on biliary excretion of the dog using an isolated perfused liver, Hecker, R and Maegrath, B G The action of	132, 6 <i>P</i> , 1956
,,	adrenaline, noradrenaline, acetylcholine and histamine on the perfused liver of the monkey, cat and rabbit and Glockling, Beryl Oxygen utilization of the	132, 509, 1956
,,	perfused canine liver and its modification by adrenaline, acetylcholine and histamine	132, 522, 1956
Angenent, Winifred J	and Koelle, G B A possible enzymatic basis for the differential action of mydriatics on light and dark irides	119, 102, 1953
Angus, T C	and Hickish, D E Mechanical equipment and experimental methods used in the investigation of group requirements for ventilation and thermal comfort (T)	<b>127</b> , 45 <i>P</i> , 1955
Anrep, G V	, Barsoum, G S and Talaat, M Release of hist- amine by the liver and Barsoum, G S Blood histamine in experi	120, 419, 1953
"	and Barsoum, G S Blood histamine in experimental obstruction of the common bile duct	120, 427, 1953
Anscombe, A R	A possible source of error in the improved spiro meter	128, 47 <i>P</i> , 1955
ARDEN, G B	and Weale, $R$ A Variations in the latent period of vision	122, 12 <i>P</i> , 1953
,,	A narrow band visual pigment obtained by a new technique	122, 13 <i>P</i> , 1953
"	and Weale, $R$ A Cone and rod thresholds Light sensitive pigment in the visual cells of the	123, 12 <i>P</i> , 1953
**	The dark reactions in visual cell suspensions	123, 377, 1954 123, 386, 1954
,,	A narrow band pigment present in visual cell suspensions	<b>123,</b> 396, 1954
,	and Tansley, Katharine The electro retinogram of the squirrel (T) and Weale, R A Nervous mechanisms and dark	125, 30P, 1954
"	adaptation and Tansley, Katharine The spectral sensitivity of	<b>125,</b> 417, 1954
77	the pure cone retina of the grey squirrel (Sciurus carolinensis leucotis)	<b>127</b> , 592, 1955
"	and Tansley, Katharine The spectral sensitivity of the pure cone retina of the souslik (Citellus	120 005 1055
"	and Greaves, D P The reversible alterations of the electroretinogram of the rabbit after occlusion of	130, 225, 1955 133 266, 1956
AT, G M.	the retinal circulation  Kemp, F H and Manen L Closure of the larynx	118, 39 <i>P</i> , 1952
,	,. ,,, =	, <b>,</b>

ARDRAN, G. M.	, Dawes, G S, Prichard, M M L, Reynolds, S R M and Wyatt, D G The effect of ventila tion of the foetal lungs upon the pulmonary	
	circulation	118, 12, 1952
"	and Wyatt, D G 35 mm cine camera incorporating a Philips X ray image intensifier	126, 1 <i>P</i> , 1954
>>	and Kemp, F H Swallowing without elevation of the larynx	126, 23P, 1954
Argent, D E	, Armstrong, Desirée, Jepson, J. B., Keele, C. A. and Phillips, L. A. Pain producing substance in inflammatory exudates	124, 18 <i>P</i> , 1954
Авшь, Ј	, Grant, R. T., Pels, H. and Reeve, E. B. The plasma, cell and blood volumes of albino rabbits as estimated by the dye (T 1824) and <sup>32</sup> P marked cell methods	116, 59, 1952
,,	and Grant, R T The artery of the denervated rabbit's ear as a sensitive pharmacological test	
79	object (With two appendices by J H Benson), Grant, R T, Thompson, R H S and Tickner, A An explanation for the heightened vascular re	121, 593, 1953
17	activity of the denervated rabbit's ear and Grant, R T Method for demonstrating and assaying the vasoconstrictor activity of rabbit's blood and for following the changes in this	121, 603, 1953
**	activity resulting from various stimuli (T) and Grant, R T Vasoconstrictor activity in the rabbit's blood and plasma	123, 51 P, 1954 128, 511, 1955
ABMINGTON, J C	, Johnson, E. P. and Riggs, L. A. The scotopic A wave in the electrical response of the human retina	118, 289, 1952
Armtage, A. K	, Burn, J H and Gunning, A J Method of studying ventricular fibrillation in the isolated heart (T)	133, 6 <i>P</i> , 1956
"	, Burn, J H and Gunning, A J Factors affecting ventricular fibrillation	133, 62 <i>P</i> , 1956
Armtage, P	, Herxheimer, H and Rosa, L Antihistamine action in the anaphylactic shock of the gumea pig	
Arustrong, Desi	RÉE, Dry, R. M. L., Keele, C. A. and Markham, J. W. Pain producing substances in blister fluid and in	118, 34 <i>P</i> , 1952
"	serum , Dry, R M L, Keele, C A and Markham, J W Pain producing actions of tryptamine and 5	117, 4 <i>P</i> , 1952
"	hydroxytryptamine $and Keele, C A$ The relation of chemical structure	117, 70P, 1952
"	to pain producing action of certain amines (T), Dry, R M L, Keele, C A and Markham, J W Observations on chemical excitants of cutaneous	119, 31 <i>P</i> , 1952
"	pain in man Argent, D E,, Jepson, J B, Keele, C A and	120, 326, 1953
"	Phillips, L A Pain producing substance in in flammatory exudates  Jepson, J B, Keele, C A, Stewart, J W and	124, 18 <i>P</i> , 1954
,	Wilson, C W M The delayed pain of thermal burns (T)  Jepson, J B, Keels, C A and Stewart, J W  Activation by class of phonons of phonons of the control of t	128, 59P, 1955
	Activation by glass of pharmacologically active agents in blood of various species	129, 80 <i>P</i> , 1955

O	JOUINAL OF THISIOLOGI	
Armstrong, Desiré	E, Jepson, J B, Keele, C A and Stewart, J W Activation of 'pre-active' human plasma to produce a bradykinin like substance (T)	
Armstrong, H I O	, Milton, G W and Smith, A W M Electro potential changes of the small intestine	130, 33 <i>P</i> , 1955 131, 147, 1956
Armstrong, W MoD	Temperature relations in the spreading of fatty acid mono layers from the solid state (T)	125, 62 <i>P</i> , 1954
ARNOTT, D G	and Fossey, $P$ Equipment for studying the distribution of $\gamma$ active radio isotopes in small animals	<b>118</b> , 18 <i>P</i> , 19ə2
ARNOTT, W M	, Butler, $J$ and Pincock, $A$ $C$ A pressure volume diagram recorder for respiration in man	<b>124</b> , 6 <i>P</i> , 1954
Arunlakshana, O	Histamine release by antihistamines	119, 47 P, 1952
,,	, Mongar, J L and Schild, H O Potentiation of pharmacological effects of histamine by hist aminase inhibitors	<b>123,</b> 32, 1954
Ash, R W	Alexander, F and The effect of emotion and hormones on the concentration of glucose and eosinophils in horse blood	<b>130</b> , 703, 1955
**	Inhibition of reticulo rumen contractions by acid	133, 75 <i>P</i> , 1956
Asher, H M F	An instrument for measuring refractive errors	134, 4P, 1956
,,	A pea shooter test for eye dominance (T)	134, 6 <i>P</i> , 1956
,,	Off effect giving rise to a sensation of blackness	134, 18P, 1956
Asmussen, E Atkinson, R M	Studies on negative and positive work in man (T) and Parsons, $B \ J \ A$ technique for the study of	117, 38P, 1952
	absorption in the perfused intestine (T)	<b>128,</b> 68 <i>P</i> , 1955
ATTREE, V	and Wade, E G Simple amplifying circuit for use with a capacitance manometer (T) and Wade, E G Pick up unit and amplifier for use	<b>132</b> , 53 <i>P</i> , 1956
,,	with a ballistocardiographic table (T)	132, 53P, 1956
AUBERT, X M	Abbott, B C and The force exerted by active striated muscle during and after change of length	<b>117</b> , 77, 1952
"	Forced lengthening of striated muscle during contraction	126, 19 <i>P</i> , 1954
Augustinsson, K B	, Fänge, R, Johnels, A and Östlund, E Histo logical, physiological and biochemical studies on the heart of two cyclostomes, hagfish (Myxine) and lamprey (Lampetra)	<b>131,</b> 257, 1956
AUMONIER, F J	, Franklin, K J and Winstone, N E Evocation of	, 20,, 200
79	milk formation in the virgin rabbit (T), Franklin, K J and Winstone, N E Evocation of	126 11 <i>P</i> , 1954
,,	milk formation in the virgin rabbit The application of interference contrast micro	126 54P, 1954
	scopy to the study of living muscle fibres, Franklin, K J and Winstone, N E Further	127 27P, 1954
,	observations on the rostral portion of the vagina in the rabbit (T)	127 31 <i>P</i> 1954
Austin, D	A urinometer for recording antidiuretic responses in rats	126 3P 1954
Austin, G M	and Pask, E A Effect of ether inhalation upon spinal cord and root action potentials	118 405 1952
AWAD, M Z E A	and McDowall, R J S The effects of anoxia and sodium chloride on the isolated rat diaphragm	116 30P 1951
•	and McDowall R J S The action of mersalyl on the sodium pump'	123, 1P 1953
		•

Bacq Z M	NOMINIST A HIAMATION	118, 24 <i>P</i> , 1952
77	and Fischer, P The action of cysteamine and related substances on liver glycogen (T)	121, 56 <i>P</i> , 1953
22	and van de Berg, L Cysteamine and coronary output of the perfused rabbit s heart (T), Beaumariage M L and Fischer, P Protection of	121, 56 <i>P</i> , 1953
"	suprarenals and liver against $X$ rave by cysteamine	126, 15 <i>P</i> , 1954
Bars, W. A.	and Batty, Jean E On adrenaline and noradrenaline inactivation by human liver in ritro	118, 13 <i>P</i> , 1952
,,	and Batty Jean E On the alleged preference of amme oxidase for noradrenalme in adrenalme noradrenalme mixtures	118, 14 <i>P</i> , 1952
23	and Fielden R Preliminary experiments on the mode of action of choline 2.6 xylvl ether bromide	133, 70 <i>P</i> , 1956
	on adrenergic nerves	155, 701, 1500
BAKER, J B E	and King, G E An inexpensive time marker (single impulse and 100 c/s) and vibrator A double pulley giving linear magnification for	117, 43 <i>P</i> , 1952
"	kymograph recording Some observations upon isolated perfused human	118, 19 <i>P</i> , 1952
,	foetal hearts	120, 122, 1953
"	and Dreyer, B Cardiac arrest by potassium citrate	131, 25P, 1956
BAKER, J E	Some observations on isolated perfused human foetal hearts (T)	117, 79 <i>P</i> , 1952
BALFOUR W E	and Hebb, Catherine Mechanisms of acetylcholine	440
	synthesis Changes in the hormone output of the adrenal	118, 94, 1952
,	cortex of the young calf	122, 59P, 1953
•	The role of citric acid in acetylcholine synthesis	129, 81 P, 1955
BALLHATCRET, F	Ires $F$ and Winton, $F$ $R$ A recording flowmeter, Ites $F$ and Winton $F$ $R$ All plastic perfusion	124 10P, 1954
	pumps	132, 32 <i>P</i> , 1956
BANISTER JEAN	and Miller G A H The effect of Ca ions on the vagal inhibition of the perfused anuran heart as	
**	measured by changes in the electrocardiogram, Whittaker V P and Wijesundera, S The occur-	118, 23 <i>P</i> , 1952
BANISTER P G	rence of homologues of acetylcholine in ox spleen  Coxon P V and Kay R H Continuous re- cording of oxygen concentration in gas mixtures	121, 55, 1953
Banister, R J	and Blears M Class demonstration. Ion effects on the isolated heart of Xenopus lactis (T)	126, 10 <i>P</i> , 1954
BANNISTER, R G	The effects on the respiration and performance of	126, 11 <i>P</i> , 1954 -
,	adding oxygen to the inspired air during exercise, Cunningham D J C and Douglas, C G The part played by changes in arterial p CO <sub>2</sub> in the pro	120, 66 <i>P</i> , 1953
	and Corniacl, R S Two low resistance low dead	122, 48P 1953
	space respiratory valves $Cunningham$ , $D$ $J$ $C$ $and$ $Douglas$ $C$ $G$ The carbon dioxide stimulus to breathing in severe	124, 4P, 1954
,	and Cunningham D J C The effects on the rooms	125, 90, 1954
	ation and performance during exercise of adding oxygen to the inspired air	<b>125,</b> 118, 1954

### JOURNAL OF PHYSIOLOGY

Baradi, A F	and Bourne, G H The effect of quinine on the histochemical dephosphorylation of ribonucleic acid in the tissues of the rat and rabbit	<b>120</b> , 20, 1953
Baranowski, D	Practical limitations to the use of transistors as $d c$ amplifiers $(T)$	<b>130</b> , 1 <i>P</i> , 1955
BARCLAY, J A.	and Ibrahim, $M$ Effect of diuresis on excretion of salts	<b>116</b> , 8 <i>P</i> , 1951
**	and Ibrahim, M Cold infusion and renal function	<b>117</b> , 29 <i>P</i> , 1952
"	and Singh, I D The demonstration of enzyme	404 07 1054
27	activity in the glomerulus by neotetrazolium and Singh, I D The isolated glomerulus	126, 9 <i>P</i> , 1954 126, 53 <i>P</i> , 1954
Barcroft, H	, Dornhorst, A. C., McClatchey, H. M. and Tanner, J. M. On the action of the sympathetic on the blood vessels in human muscle during rhythmic exercise (T)	116, 10 <i>P</i> , 1951
,,	, Dornhorst, A. C., McClatchey, H. M. and Tanner, J. M. On the blood flow through rhythmically contracting muscle before and during release of	117 201 1059
"	sympathetic vasoconstrictor tone, Gaskell, P, Shepherd, J T and Whelan, R F The effect of noradrenaline infusions on the blood	117, 391, 1952
,,	flow through the human forearm, Hensel, H and Kutchin, A H Comparison of plethysmograph and thermo electric needle	123, 443, 1954
n	records of calf blood flow during intravenous adrenaline infusions, Bock, K D, Hensel, H and Kuchin, A H The	127, 7 <i>P</i> , 1954
	effect of body warming on the blood flow through human muscle (T)	129, 31 <i>P</i> , 1955
,,	and Cobbold, A F On the action of adrenaline on muscle blood flow and blood lactate in man	131, 10 <i>P</i> , 1956
"	and Cobbold, A F On the action of intravenous pitressin on forearm blood flow and blood lactate in man	132, 10 <i>P</i> , 1956
**	, Edholm, O G, Foster, C A, Fox, R H and Macpherson, R K The effect of nerve block on forearm blood flow	132, 16 <i>P</i> , 1956
,,	and Cobbold, A F The action of adrenaline on	102, 102, 200
••	muscle blood flow and blood lactate in man	132, 372, 1956
BARER, GWENDA	and Nüsser, E Reflex changes in tidal air	118, 40P, 1954
Barer, R	and Ross, K A F Refractometry of hving cells	118, 38 <i>P</i> , 1952
,,	A new microscope lamp (T)	118, 51P, 1952
,,	Spectrophotometry of red cell suspensions	119, 52P, 1952
,,	, Howe, J B, Ross, K F A and Thaczyl, S Applications of refractometry in haematology	120, 67 <i>P</i> , 1953
**	and Underwood, R G A simple photomultiplier photometer of high sensitivity (T)	126, 11 <i>P</i> , 1954
"	and Dick, D A T Mass, concentration and thick ness of living cells in tissue culture	129, 25P 1955
**	and Sidman, R L The absorption spectrum of rhodopsin in solution and in intact rods	129 60P, 1955
"	and Joseph, S Observations on the physical state of chromosomes	132, 34 <i>P</i> , 1956
,,	and Underwood, R G Apparatus for time lapse cinematography (T)	133, 6P 1956

# INDEX OF AUTHORS

BARLOW, E D	Effects on e c g and blood pressure of therapeutic intravenous acetylcholme (T)	127, 5 <i>P</i> , 1954
BARLOW, H B	Eve movements during fixation Action potentials from the frog s retina Summation and inhibition in the frog's retina FitzHugh, R and Kuffler, S W Resting discharge	116, 290, 1952 119, 58, 1953 119, 69, 1953
BARLTROP, D	and dark adaptation in the cat  The relation between body temperature and	125, 28 <i>P</i> , 1954
	respiration and Duff, Janet I The action of 2 4-dimitrophenol	125, 19 <i>P</i> , 1954
Barnes, J M	(DNP) on mammalian stricted muscle, $Duff$ , $J$ and $Threlfall$ , $C$ $J$ The behaviour of mammalian stricted muscle in the presence of	124, 37 <i>P</i> , 1954 130, 585, 1955
Barnicot, N A	2 4 dinitrophenol  Urmary excretion of 17 ketosteroids under tropical conditions (T)	116, 10 <i>P</i> , 1951
BARRY, W L	, Peterson, J M and Sims, A L A sensitive single- cell absorptiometer unaffected by voltage changes in current supply (T)	119, 21 <i>P</i> , 1952
Barsoum, G S	Anrep G V, — and Talaat, M Release of histamine by the liver	120, 419, 1953
,,	Anrep, G V and Blood histamine in experimental obstruction of the common bile duct	120, 427, 1953
Basnanare, V	and Sinclair, $H$ M Skin permeability in deficiency of essential fatty acids	126, 55P, 1954
Bassir, O	Molecular inhomogeneity as a source of error in inulin clearance studies	131, 586, 1956
Bates, D V	The measurement of the pulmonary diffusing capa city during exercise (T)	126, 41 <i>P</i> , 1954
,,	, Boucot, Nancy G and Dormer, A E The pulmonary diffusing capacity in normal subjects and Pearce J F The pulmonary diffusing capacity,	129, 237, 1955
	a comparison of methods of measurement and a study of the effect of body position	132, 232, 1956
BATES, J A V	Motor responses from the medial surface of the cerebral hemisphere in man and Cooper, J D A method of making audible	122, 18P, 1953
17	fluctuations in the 0 1-20 c/s range (T) and Cooper, J D A simple electronic circuit for	123, 28P, 1953
**	measuring a voltage time integral  The long term repeatability of the cortical motor	123 98 P 1952
,,	map A comparison between movements produced by	123, 48 <i>P</i> , 1953
,,	stimulation of the motor cortex and the internal capsule in the same individual The unidirectional d.c element in e.e.g ab	123, 49 <i>P</i> , 1953
BATTY, JEAN E	normalities  Bain W. A. and On adrenaline and noradrenaline	129, 52P, 1955
"	Bain W A and On the alleged preference of	118, 13 <i>P</i> , 1952
BANTER, I G	amine oxidase for noradrenaline in adrenaline noradrenaline mixtures , Cunningham, D. J. C. and Pearce, J. II. Com.	118, 14 <i>P</i> , 1952
	parison of cardiac output determinations in the cat by direct Fick and flowmeter methods	118, 299, 1952

BAYLISS, L E

**117**, 19*P*, 1952 **127**, 358, 1955

A mechanical model of the heart (T)

"	A mechanical model of the heart  The use of a roller pump for long continued continuous infusion	127, 358, 1955 128, 29 <i>P</i> , 1955
Beaconsfield, P	and Ginsburg, Jean The effect of body posture on the hand blood flow (T)	<b>128</b> , 59 <i>P</i> , 1955
,,	and Ginsburg, Jean The effect of body posture on the hand blood flow	130, 467, 1955
Beakley, W R	A reference junction for thermocouples A radiometer for measuring surface temperature and Findlay, J D A climatic chamber for large	121, 28 <i>P</i> , 1953 121, 28 <i>P</i> , 1953
"	animals , Bligh, J and Nisbet, W A pneumotachograph for	<b>121,</b> 40 <i>P</i> , 1953
"	cattle and Findlay, J D The effect of thermal environ	<b>121,</b> 40 <i>P</i> , 1953
D M	ment on the rectal temperatures of calves	121, 47P, 1953
BEARY, MARY	, Conway, E J and Ryan, H Active transport of magnesium in yeast (T)	125, 66 <i>P</i> , 1954
BEAU, M LE	see LE BEAU, M	
DEAUMARIAGE, M. L.	, Bacq, Z M, —— and Fischer, P Protection of suprarenals and liver against X rays by cyste amine	<b>126</b> , 15 <i>P</i> , 1954
BEAVER, R A	A simple mechanical respirator for positive pressure ventilation (T) Beaver Byford respirator	123, 29 <i>P</i> , 1953 130, 37 <i>P</i> , 1955
Beck, W H	, Rasmussen, K G and Wynne Jones, W F K Proto chemical reactions The behaviour of membranes as protodes and the theory of the glass electrode	121, 6 <i>P</i> , 1953
BECKETT, EVELYN, B	, Bourne, G H and Montagna, W Histology and cytochemistry of human skin The distribution of cholinesterase in the finger of the embryo and the adult	134, 202, 1956
BEDFORD, T H B	The absorption of histamine from the subarachnoid space of the dog	<b>120</b> , 62 <i>P</i> , 1953
"	The movement of cerebrospinal fluid over the cerebral hemispheres of the dog	128, 51 <i>P</i> , 1955
Belbin, R M.	A Muller photoelectric pulse counter adapted for remote recording (T)	127, 45 <i>P</i> , 1955
BELL, F R	Amoroso E C, — and Lawn A M Prehension, rumination and progression after lesions of the motor cortex in goats (Film) (T)	<b>124</b> , 16 <i>P</i> , 1954
"	Amoroso, E. C., —— and Rosenberg, H. The relationship of the vasomotor and respiratory regions in the medulla oblongata of the sheep	126, 86, 1954
"	and Lawn, A M Localization of regions in the medulla oblongata of sheep associated with rumination	<b>128</b> , 577 1955
"	, and Lawn A M Delineation of motor areas in the cerebral cortex of the goat	<b>133</b> , 159, 1956
"	and Evans, C Lovatt Sweating and the innerva- tion of sweat glands in the horse	133, 67P 1956
"	and Evans, C Lovatt The relation between sweating and the innervation of sweat glands in the horse	134, 421, 1956

Bell, Kathleen M.	, Kirby, A R and Rodger, F C The source of corneal nerve fibres in the cat	117, 56 <i>P</i> , 1952
BELL, P. M. G	A modified recording rotameter for measuring blood flow	125, 9P, 1954
BENACERRAF, B	, Biomi, G, Cuendet, A and Halpern, B N Influence of portal blood flow and of partial hepatectomy on the granulopectic activity of the reticulo-endothelial system	<b>128, 1, 1</b> 955
BENDALL, J R	Further observations on a factor (the 'Marsh' factor) effecting relaxation of ATP shortened muscle fibre models, and the effect of Ca and Mg ions upon it	121, 232, 1953
Bennett, M	A new stereotactic instrument for use in man (T)	130, 40P, 1955
Bennett, M. V. L.	Extracellular single unit recording in the somatic sensory cortex of the cat (T) Synchronizing low frequency stimuli with a high	129 7 <i>P</i> , 1955
"	frequency free running time base (T)	133, 1 <i>P</i> , 1956
Bexson, A J	and Jefferson, A. A. Quantitative aspects of the monosynaptic reflex	118, 44 <i>P</i> , 1952
Benson, J H	Two appendices Armin, J and Grant, R T The artery of the denervated rabbit's ear as a sensitive pharmacological test object	121, 593, 1953
Bentler, P J	Some aspects of the water metabolism of an Australian marsupial (T)  Some aspects of the water metabolism of an	124 40 <i>P</i> , 1954
"	Australian marsupial Sciency brachyurus	127 1 1955
Beraldo, W T	, Feldberg, W and Hilton S $\ M$ Experiments on the factor in urine forming substance U	133, 558, 1956
Beeg, L van de	see van de Berg, L	
Bernstfin, L	Apparatus for determining pressure volume dia grams of the lungs in the live animal and Mendel D A spirometer which can be used at	119, 2P 1952
,	high respiratory rates  The relation between rate and direction of air	119, 3 <i>P</i> , 1952
72	flow and the viscous hindrance to lung venti- lation  and Ka_ant_is, G The prediction of maximum ventilatory capacity from fast vital capacity	119, 15 <i>P</i> , 1952
	records  Harrison R J and Tomlinson, J D W The sphincter above the diaphragm on the inferior	122, 78 <i>P</i> , 1953
	vena cava of the common seal (Phoca vitulina L)  The pressure volume diagram of the rabbit s lung	123, 39 <i>P</i> , 1953
	The discontinuity in the pressure-volume curve of	123, 44P, 1953
	the rabbit s lung  The interpretation of the pressure volume curve of the rabbit s lung	124, 35P, 1954
BERNSTEIN, R E	· ·	
Bersaques J D	E see de Bersaques J	132, 70P 1956
Best, C	, Bolam, R and Hallpike, C S A new head holder	
	for rabbits	123, 22 <i>P</i> , 1953

Beswick, F B	and Evanson, J M Irradiation of the mono	
**	synaptic reflex during post-tetanic potentiation, $Blockey$ , $N$ $J$ and $Evanson$ , $J$ $M$ Some effects of	
	the stimulation of articular nerves and Evanson, J M Reflex effects of repetitive	<b>128,</b> 83 <i>P</i> , 1955
,,	stimulation of group I muscle afferent fibres and Evanson, J. M. The heterosynaptic activation	128, 83P, 1955
"	of motoneurones during post tetanic potentiation	
"	, Evanson, J M and Fentem, P H Activation of heteronymous motoneurones during post tetanic	
**	potentiation (T) and Wayne, E Tooth contact during chewing (T)	132, 53P, 1956 132, 53P, 1956
"	Supraspinal influence on central effects of group II volleys	
,,	and Fentem, P H A comparison of the effects of the repetitive activation of the inhibitory and excitatory collaterals of group I muscle afferent	, ,
	fibres	134, 15 <i>P</i> , 1956
BEZNAK, A B L	and Liljestrand, G Changes in the flow of lymph and in the secretion of urine due to the carotid sinus reflex	<b>117,</b> 10 <i>P</i> , 1952
Beznák, Margaret	The effect of the pituitary and growth hormone on the blood pressure and on the ability of the heart to hypertrophy	116, 74, 1952
"	The effect of the adrenals and the pituitary on blood pressure and cardiac hypertrophy of rats	116, 219 1952
"	The restoration of cardiac hypertrophy and blood pressure in hypophysectomized rats with large	
"	doses of LAP' or growth hormone The behaviour of the weight of the heart and the blood pressure of albino rats under different	120, 23 <i>P</i> , 1953
"	conditions  The restoration of cardiac hypertrophy and blood pressure in hypophysectomized rats by large doses of lyophilized anterior pituitary and	124, 44, 1954
,,	growth hormone The effect of adrenocortical hormones alone and in combination with growth hormone on cardiac hypertrophy and blood pressure of hypophys ectomized rats	124, 64, 1954
Drammagrana RK	and Lewis, G P Comparison of the effect of reser	124 75, 1954
DHAITAUHARTA	pine and 48/80 on the histamine and 5 hydroxy tryptamine in mast cells of rats	133, 10 <i>P</i> , 1956
Bianca, W	The effect of repeated short term exposures to high environmental temperatures on the volume and hydration of the blood of the calf	130, 17 <i>P</i> , 1955
BIGGERS, J D	, Claringbold, P J and Hardy, Margaret H The action of cestrogens on the vagina of the mouse in tissue culture	131, 497 1956
Biggs, Rosemary	, Douglas, A S and Macfarlane, R G The formation of thromboplastin in human blood	119, 89 1953
**	, Douglas, A S and Macfarlane, R G The initial stages of blood coagulation	122, 538 1953
,,	, Douglas A S and Macfarlane, R G The action of thromboplastic substances	122, 554, 1953

BIGLAND, BRENDA	and Jehring, Barbara Muscle performance in rats, normal and treated with growth hormone	116, 129, 1952
,,	Abbott, B C and The physiological cost of negative work	117, 17 <i>P</i> , 1952
23	Abbott, B C, — and Ritchie, J M The physic logical cost of negative work	117, 380, 1952
**	Abbott, B C and The effects of force and speed changes during negative work	118, 50 <i>P</i> , 1952
**	, Lappold, O C J and Wrench, Anne The electrical activity in isotonic contractions of human calf	120, 40 <i>P</i> , 1953
"	muscle Abbott, B C and The effects of force and speech changes on the rate of oxygen consumption	120, 101, 1000
"	during negative work, Hutter, O F and Lappold, O C J Action po	120, 319, 1953
	tentials and tension in mammalian nerve muscle preparations	121, 55P, 1953
"	and Lappold, O C J The relation between force, velocity and integrated electrical activity in human muscles	123, 214, 1954
"	and Inppold, O C J Motor unit activity in the voluntary contraction of human muscle	125, 322, 1954
Biozzi, G	Benacerraf, B, ——, Cuendet, A and Halpern, B N Influence of portal blood flow and of partial hepatectomy on the granulopectic activity of the	
	reticulo-endothelial system	128, 1, 1955
Віквеск, М S С	, Howe, A and Richardson, K C Quantitative ob servations on mitochondria in the guinea pig mammary gland (T)	130, 22 <i>P</i> , 1955
Bird, G W G	Alsoy, M, —, Lehmann, H, Mourant, A E, Thein, H and Wickremasinghe, R L Haemo globin E in Asia	130, 56 <i>P</i> , 1955
Birnie, J H	and Grayson, J Observations on temperature dis tribution and liver blood flow in the rat	116, 189, 1952
Bishop, Beverley	Garry, R. C., Roberts, T. D. M. and Todd, J. K. Control of the external sphincter of the anns in the cat	
Візнор, Ј М	, Donald, K W and Wade, O L Cardiac output	134, 229, 1956
"	during exercise and recovery (T) , Donald, K W and Wade, O L Minute to minute changes in cardiac output by the direct Fick	123, 2P, 1953
,	method in normal subjects during exercise and recovery , Donald, K. W., Taylor, S. H. and Wormald, P. N.	123, 12 <i>P</i> , 1953
**	Effect of supine leg exercise on the splanchme A-V oxygen difference in normal subjects , Donald, K. W., Taylor, S. H. and Wormald, P. N.	133, 9 <i>P</i> , 1956
	supine leg exercise in normal subjects	133, 60 <i>P</i> , 1956
BISHOP, P O	, Jeremy D and Lance, J W The optic nerve	, -04, 1000
11	Properties of a central tract and Evans, W A The refractory period of the sensory synapses of the lateral geniculate nucleus	•
BISHTON R L	The effect of pilocarpine on gastric blood flow	134, 538, 1956
	The out Reserve Diood 110#	124, 62P, 1954

JOURNAL OF FILIBIOLOGI	
and Walker, J M Assay of oxytocin in blood	<b>126,</b> 588, 1954
, Fisher, E W and Smith, A N The effect of 5 hydroxytryptamine on gastric secretion (T)	<b>129,</b> 62 <i>P</i> , 1955
The effects of potassium and calcium salts on the motility of ram, rabbit and bull spermatozoa	120, 465, 1953
, $Harper$ , $A$ $A$ and $Lale$ , $H$ $J$ The pepsin stimu lating effects of gastric and intestinal extracts in cats	<b>121,</b> 20 <i>P</i> , 1953
and Hawkins, Joyce Observations on amine oxidase in cephalopods	<b>118,</b> 88, 1952
, Hagen, P and Welch A D The way adrenalme is held by cytoplasmic granules of the adrenal medulla (T)	<b>120,</b> 58 <i>P</i> , 1953
and Himms, Jean M Amine oxidase in the earth worm	<b>120, 445,</b> 1953
and Philpot, Flora J Enzymic oxidation of trypt-	122, 403, 1953
and Hellmann, K Pigment formation from trypt amine and 5 hydroxytryptamine in tissues a contribution to the histochemistry of amine	122, 419, 1953
and Hope, D B Enzymic decarboxylation of	126 52P, 1954
and Himms, Jean M D Glutamic acid oxidase in cephalopod liver	128, 7 <i>P</i> , 1955
and Hope, D B The oxidation of L amino acids in the digestive gland of Mytilus edulis	129, 11 <i>P</i> , 1955
intracellular granules of the adrenal medulla	129, 27, 1955
mentation of adrenal medullary granules in hypertonic sucrose, Born, G V R, D'Iorio, A and Eade, N R Observations on the distribution of catechol amines	<b>132,</b> 44 <i>P</i> , 1956
medulla	133, 548, 1956
and Leter, A F The effect of atropine and acetyl choline on dorsal and ventral root potentials (T)	118, 50P, 1952
and Technical Staff The metabolism house a tem perature controlled building for conducting metabolic studies with lactating cows (Technical No. 100 and People I. 4 F. Reconstitution)	121, 39 <i>P</i> 1953
calorimetry with farm animals	121, 39P 1953
the energy exchange of calves	121 48P, 1953
effects on the isolated heart of Xenopus laevis (T)	126 11 <i>P</i> , 1954
pressure of blood vessels in the frog s hind limb	133 23 <i>P</i> 1956
viving rat's heart	118 27 <i>P</i> , 1952
lated rat heart	123, 260 1954
and Rashbass, $C$ The frog's sciatic gastrocnemius preparation (Film) (T)	120, 45P, 1953
	, Fisher, E. W. and Smith, A. N. The effect of 5 hydroxytryptamine on gastric secretion (T). The effects of potassium and calcium salts on the motility of ram, rabbit and bull spermatozoa. Harper, A. A. and Lale, H. J. The pepsin stimu lating effects of gastric and intestinal extracts in cats.  and Hawkins, Joyce. Observations on amine oxidase in cephalopods. Hagen, P. and Welch. A. D. The way adrenaline is held by cytoplasmic granules of the adrenal medulla (T).  and Himms, Jean. M. Amine oxidase in the earth worm.  and Philpot, Flora J. Enzymic oxidation of tryptamine derivatives.  and Hellmann, K. Pigment formation from tryptamine and 5 hydroxytryptamine in tissues a contribution to the histochemistry of amine oxidase.  and Hope, D. B. Enzymic decarboxylation of cysteic and cysteine sulphinic acids.  and Hope, D. B. The oxidation of L. amino acids in the digestive gland of Mytilus edults.  Hagen, P. and Welch, A. D. Observations on the intracellular granules of the adrenal medulla.  Born, G. V. R., D. Iorio, A. and Eade, N. R. Sedimentation of adrenal medullary granules in hypertonic sucrose.  Born, G. V. R., D'Iorio, A. and Eade, N. R. Observations on the distribution of catechol amines and adenosine triphosphate in the boyine adrenal medulla.  and Leter, A. F. The effect of atropine and acetylcholine on dorsal and ventral root potentials (T).  and Technical Staff. The metabolism house a temperature controlled building for conducting metabolic studies with lactating cows (T).  Graham, N. McC. and Rook, J. A. F. Respiration calorimetry with farm animals.  and Rook, J. A. F. The effect of Mg deficiency on the energy exchange of calves.  Banister, R. B. The action of insulin on the surviving rat's heart.  and Fisher, R. B. The action of insulin on the surviving rat's heart.  and Rashbass, C. The frog's sciatic gastrocnemius.

	11.02		
Высн, Ј	The level of free choline in plasma  The role of the liver and the Lidneys in the main	117, 234, 1952	
**	tenance of the level of free choline in plasma	120, 53, 1953	
"	The effect of a choline deficient diet upon the level of free choline in plasma of the rat	120, 440, 1953	
37	Bealley, W R, — and Niebet, W A pneumo tachograph for cattle	121, 40 <i>P</i> , 1953	
29	Relationship between rectal and carotid blood temperatures of calves at different environ mental conditions (T)  A comparison of rectal, bicarotid trunk and pul	123, 50 <i>P</i> , 1953	
39	monary artery temperatures in the calf under heat stress	130, 46 <i>P</i> , 1955	
BLOCKEY, N J	Beswick, F B, —— and Evanson, J M Some effects of the stimulation of articular nerves	128, 83 <i>P</i> , 1955	
Bock, K. D	Barcroft, H, —, Hensel, H and Kitchin, A H The effect of body warming on the blood flow through human muscle (T)	129, 31 <i>P</i> , 1955	
BOLAN, R	Best, C, — and Hallpile, C S A new head holder for rabbits	123, 22 <i>P</i> , 1953	
BOLLMAN, J L	, Maher, F T and Manger, W M Plasma concentration of epinephrine and norepinephrine in haemorrhagic and anaphylactic shock	<b>133,</b> 49 <i>P</i> , 1956	
BOND, AUDREY M.	, and Murray, Margaret, M The effects of chronic fluorine intoxication in the kidney	116, 18 <i>P</i> , 1951	
***	, Murray, Margaret M and Stevens, J A Direct titrimetric determination of fluorine in drinking waters	116 1070 1071	
"	and Hunt, J N The influence of fluoride on the secretion of the electrolytes of gastric juice (T)	116, 18 <i>P</i> , 1951	
17	and Hunt, J N The effect of sodium fluoride on the output of some electrolytes from the gastric	128, 39 <i>P</i> , 1955	
BOOKER W M.	mucosa of cats , DaCosta, Frances, Mitchell, S Q and Shelton, M	133, 317, 1956	
	Further studies on the effects of cortisone and its congeners on the intact and perfused heart	133, 45P 1956 ·	
Born, G V R	and Vane, J R Gastric secretion induced by hist-amine	121, 445, 1953	
,	Acute oedema in the isolated, perfused lungs of rabbits	124, 502 1954	
,	and Bülbring, Edith The determination of ATP by firefly luminescence (T)	126 11 P 1054	
11	and Bülbring, Edith The effect of 2,4-dimitrophenol (DNP) on smooth muscle	126 94 P 10=4	
**	, Dawes G S and Mott, Joan C The viability of premature lambs (T)		
**	, Dawes G S Mott, Joan C and Rennick, Barbara R The relief of central cyanosis due to venous ad	127, 9P, 1954	
,	mixture by reconstitution of the ductus arteriosus and Bülbring, Edith The effect of 2 4-dinitrophenol (DNP) on the smooth muscle of the guinea pig's	,, 2000	
71	Tension work and changes in adenosine triphos phate concentration of the isolated taging color	127, 626, 1955	
2	the guinea pig	128, 38P, 1955	

BORN, G V R

### JOURNAL OF PHYSIOLOGY

, Dawes, G S, Mott, Joan C and Rennick, Barbara R
The mechanism of constriction of the ductus

"	The mechanism of constriction of the ductus arteriosus in the newborn lamb  Dawes, G. S., Mott, Joan C. and Rennick, Barbara R. The relief of central cyanosis caused by pulmo	<b>129,</b> 28 <i>P</i> , 1955
	nary arterio venous shunts by construction of an artificial ductus arteriosus	<b>130,</b> 167, 1955
"	, Dawes, G S and Mott, Joan C The viability of premature lambs	<b>130,</b> 191, 1955
"	and Bülbring, Edith The movement of radioactive potassium between smooth muscle and the sur	
"	rounding fluid  and Bülbring, Edith The movement of potassium between smooth muscle and the surrounding fluid	130, 55 <i>P</i> , 1955 131, 690, 1956
"	The relation between the tension and the high	
,,	energy phosphate content of smooth muscle, Daves, G S, Mott, Joan C and Rennick, Barbara R	131, 704, 1956
,,	The constriction of the ductus arteriosus caused by oxygen and by asphyxia in new born lambs Blaschlo, H, ——, D'Iorio, A and Eade, N R Sedimentation of adrenal medullary granules in	132, 304, 1956
"	hypertonic sucrose  Blaschko, H, —, D'Iorio, A and Eade, N R  Observations on the distribution of catechol	132, 44P, 1956
,,	amines and adenosine triphosphate in the bovine adrenal medulla  The break down of adenosine triphosphate in blood	133, 548, 1956
	platelets during clotting, Dawes, G S and Mott, Joan C Oxygen lack and	<b>133</b> , 61 <i>P</i> , 1956
,,	autonomic nervous control of the foetal circu lation in the lamb	134, 149, 1956
Borrogan, J	, Collin, R and Whitteridge, D Anatomical and physiological studies of the olive in the cat (T)	118, 5P, 1952
Boss, J	The spindle and the mechanism of chromosome separation as seen in the living cell	119, 34 <i>P</i> , 1952
"	The pairing of chromosomes in mitotic anaphase and Green, J. H. Nervous structures in recently described baroceptor areas of the right common	<b>120</b> , 32 <i>P</i> , 1953
"	carotid artery in the cat and Green, J. H. Modification of the arterial wall in	124, 43 <i>P</i> , 1954
BOUCOT, NANCY G	baroceptor areas  Bates, D V, —— and Dormer, A E The pulmonary	125, 42P, 1954
,,	diffusing capacity in normal subjects, Lumb, G. A., Mahler, R. F. and Stanbury, S. W.	129, 237, 1955
	The extra renal buffering of acute respiratory alkalosis in man	132 63P, 1956
Bounameaux, Y	, $Hugues$ , $J$ and $Lecomte$ , $J$ Histamine and plate let adhesiveness	126, 15 <i>P</i> , 1954
Boura, A	and Dicker, S E An apparatus for the mainten ance of a constant water load and the recording of urine flow in rats	122 144 1953
Bourdillon, R B	and Bourdillon, T D Closed circuit oxygen apparatus as used on Mount Everest, 1953 (T)	123, 24 <i>P</i> , 1953
Bourdillon, T D	Bourdillon, R B and Closed circuit oxygen apparatus as used on Mount Everest, 1953 (T)	123, 24P, 1953

Bourne, G H	and Malaty, H A The histochemistry of simple esterases (T)	119, 8 <i>P</i> , 1952
"	and Malaty, H A The histochemistry of succinic dehydrogenese (T)	119, 6 <i>P</i> , 1952
"	Baradt, A F and The effect of quimme on the histochemical dephosphorylation of ribonucleic acid in the tissues of the rat and rabbit and Malaty, H A The effect of adrenalectomy, cortisone and other steroid hormones on the	120, 20, 1953
"	histochemical reaction for succinic dehydro genase  The histochemical dephosphory lation of cestrogen	122, 178, 1953
"	phosphates  Beckett, Evelyn B, —— and Montagna, W	124, 409, 1954
<b>1</b> )	Histology and cytochemistry of human skin The distribution of cholinesterase in the finger of the embryo and the adult	134, 202, 1956
Bowie, Jane Y	, Darlow, G and Murray, Margaret M The effects of sodium fluoride on gastric secretion in cats (T) , Darlow, G and Murray, Margaret M The effect of	119, 53 <i>P</i> , 1952
	sodium fluoride on gastric acid secretion	122, 203, 1953
Bowman, W C	and Zaimis, Eleanor A comparison between the responses of the tibialis anterior and the soleus muscles in the cat to adrenaline, noradrenaline and isoprenaline	128, 14 <i>P</i> , 1955
Bowyer, Freda	and $W$ uddas, $W$ $F$ Erythrocyte permeability to erythritol	<b>129,</b> 7 <i>P</i> , 1955
Boyd, I A	Nerve impulses from proprioceptors in the knee joint of the cat	119, 8 <i>P</i> , 1952
"	Andrew, A M, —— and Roberts, T D M Apparatus for the analysis of the stimulus response relationship of proprioceptors in the knee joint of the cat (T)	121, 31 <i>P</i> , 1953
**	The sense organs responsible for the proprioceptive discharges from the knee joint of the cat	121, 32 <i>P</i> , 1953
**	and Roberts, T D M Proprioceptive discharges from stretch receptors in the knee joint of the cat	122, 38, 1953
"	The histological structure of the receptors in the knee joint of the cat correlated with their physic logical response	
13	and Martin, A R Ministure end plate potentials	
"	in isolated mammalian muscle and $Martin$ , $A$ $R$ The quantal composition of the	128, 30P, 1955
**	mammalian end plate potential and Martin, A R Spontaneous subthreshold acti	<b>129,</b> 14 <i>P</i> , 1955
19	vity at mammalian neuromuscular junctions and Martin, A R The end plate potential in	132, 61, 1956
"	mammalian muscle The tenussimus muscle of the cat	132, 74, 1956
BRADLEY, K	, Easton, D M and Eccles, J C The temporal	133, 35 <i>P</i> , 1956
	course of direct inhibition evoked by single and repetitive volleys (T)	117 84 P 1050
11	and Eccles, J C Analysis of the fast afferent impulses from thigh muscles	122 400 10
**	, Easton, D M and Eccles, J C An investigation of primary or direct inhibition	122, 474, 1953
		-, -, +, 1000

Bradley, P B	and Elkes, J The effect of amphetamine and D lysergic acid diethylamide (LSD 25) on the	1
**	electrical activity of the brain of the conscious cat and Elles, J The effect of atropine, hyoscyamine, physostigmine and neostigmine on the electrical	<b>120,</b> 13 <i>P</i> , 1953
"	activity of the brain of the conscious cat, Elles, C and Elles, J On some effects of lysergic acid diethylamide (LSD 25) in normal volun	<b>120</b> , 14 <i>P</i> , 19 <sub>0</sub> 3
,,	teers  Cerquiglini, S and Elles, J Some effects of disso  propylfluorophosphate on the electrical activity	<b>121</b> , 50 <i>P</i> , 1953
,,	of the brain of the cat  and Hance, A J The effect of chlorpromazine on the electrical activity of the brain of the con	121, 51 P, 1953
"	and Hance, A J The effects of intraventricular injections of D lysergic acid diethylamide (LSD 25) and 5 hydroxytryptamine (serotonin) on the electrical activity of the brain of the	129, 50 P, 1955
,,	conscious cat  and Key, B J A method for studying the effect of drugs on arousal responses in the cat (T)	132, 50 <i>P</i> , 1956 134, 6 <i>P</i> , 1956
BRADLEY, R D	, Gaskell, P, Holland, W W, Lee, G de J and Young, I Maureen The acid base changes in arterial blood during adrenaline hyperphoes in man	<b>122,</b> 39 <i>P</i> , 1953
,,	, Gaskell, P, Holland, W W, Lee, G de J and Young, I Maureen The acid base changes in arternal blood during adrenaline hyperphoea in man	<b>124</b> , 213, 1954
BRADLEY, S E	, Childs, A. W., Combes, B., Cournand A., Wade, O. L. and Wheeler, H. O. The effect of exercise on the splanchnic blood flow and splanchnic blood volume in normal man	<b>133,</b> 9 <i>P</i> , 1956
Bradshaw, T E	and Jessop, W J E The excretion of cestrogens and pregnanediol during the last three weeks of pregnancy and the first week after delivery in fourteen normal women (T)	116, 10 <i>P</i> , 1951
Brasseur, L	Carbohy drate metabolism during pregnancy in the rabbit	126, 22 <i>P</i> , 1954
Brebner, D F	, Kerslake D McK and Waddell J L The diffusion of water vapour through human skin, Kerslake D McK and Waddell J L The relation	132, 225, 1956
	between sweat rate and body temperature when heat loss is small	132, 17 <i>P</i> , 1956
Brewin, E G	and Neil E Acid base studies during hypothermia, Nashat, F S and Neil E The influence of temperature on the relationship between blood CO <sub>2</sub>	126, 26 <i>P</i> , 1954
"	tension and plasma pH, Gould, R P, Nashat F S and Neil, E Changes in structure and function of the liver as a result of hypothermia combined with occlusion of both	<b>127</b> , 19 <i>P</i> , 1954
"	venae cavae and Neil, E Cardiovascular and respiratory reflex responses to stimulation of right cardiac vagal	128, 45 <i>P</i> , 1955
	afferents (T)	130, 36P, 1955

	IIIDDII Oz Zota	
BRIDGES, C D B	Visual purple, some notes on the mechanism of extractants Visual pigments of the rainbow trout	128, 53 <i>P</i> , 1955 129, 60 <i>P</i> , 1955
99 99	The visual pigments of the rambow trout (Salmo trideus)	134, 620, 1956
BRIERLEY, J B	The penetration of 22P into the nervous tissues of the rabbit	116, 24 <i>P</i> , 1951
17	Penetration of 2*P and 24Na into nervous tissues of the rabbit	117, 6P, 1952
Brindley, G S	and Willmer, E N The absorption spectrum of the macular pigmentation in the living eve (T)	116, 10 <i>P</i> , 1951
11	and Willmer, E N The reflexion of light from the macular and peripheral fundus oculi in man	116, 350, 1952
"	and Willmer, E. N. The spectral sensitivity curves of human red and green receptors (T)  The Bunsen-Roscoe law for the human eve at very	117, 58 <i>P</i> , 1952
**	short durations	118, 135, 1952
"	The effects on colour vision of adaptation to very bright lights	122, 332, 1953
,	The summation areas of human colour receptive mechanisms at increment threshold  The site of electrical excitation of the human eve	124, 400, 1954 127, 189, 1955
•	and Rushton W A H The detection of a visual	127, 100, 1000
•	pigment in living human cones (T)	128, 59P, 1955
,	The colour of light of very long was elength Evidence concerning the origin of the electro	130, 35, 1955
•	retinogram (T)	133, 46 <i>P</i> , 1956
,	The passive electrical properties of the frog s retina choroid and sclera for radial fields and currents The effect on the frog s electroretinogram of varying	134, 339, 1956
,	the amount of retina illuminated Responses to illumination recorded by micro	134, 353, 1956
,	electrodes from the frog s retina	134, 360, 1956
Briscoe, Sheila	and Burn, J H Formation of acetylcholine like substance by rabbit heart and Burn, J H The formation of an acetylcholine	125, 31 <i>P</i> , 1954
	like substance by the isolated rabbit heart Cholinesterase activity of left and right atria of the	126 181 1954
*	rabbit's heart	126, 623, 1954
Briscoe W A.	and Cournand, A The uneven ventilation of normal buman lungs at rest	130, 21 P, 1955
Веовеск, Ј Р	, Larsson, S and Reyes E A study of the electrical activity of the hypothalamic feeding mechanism	132 358, 1956
Brock, L G	Coombs, J S and Eccles J C Synaptic excita- tion and inhibition Coombs J S and Eccles, J C The recording of potentials from motoneurones with an intra	110 OD 1000
	cellular electrode	117, 431, 1952
,	, Eccles, Rosamond M and Keynes, R D The dis charge of individual electroplates in Raia clavata , Coombs, J S and Eccles, J C Intracellular re cording from antidromically activated moto neurones	122 4P, 1953
Brocklehurst,	V.E. Occurrence of an unidentified substance de-	122, 429, 1953
	anaphylactic shock in cary lung	120, 16 <i>P</i> , 1953

Bradley, P B	and Elles, J The effect of amphetamine and D lysergic acid diethylamide (LSD 25) on the	,
"	electrical activity of the brain of the conscious cat and Elkes, J The effect of atropine, hyoscyamine, physostigmine and neostigmine on the electrical	
"	activity of the brain of the conscious cat, Elles, C and Elles, J On some effects of lysergic	120, 14P, 1953
<b>33</b>	acid diethylamide (LSD 25) in normal volun teers , Cerquiglini, S and Elles, J Some effects of disso	<b>121,</b> 50 <i>P</i> , 1953
"	propylfluorophosphate on the electrical activity of the brain of the cat and Hance, A J The effect of chlorpromazine on	121, 51P, 1953
,,	the electrical activity of the brain of the conscious cat	<b>129,</b> 50 <i>P</i> , 1955
"	and Hance, A J The effects of intraventricular injections of D lysergic acid diethylamide (LSD 25) and 5 hydroxytryptamine (serotonin) on the electrical activity of the brain of the	422 FOR 1056
"	conscious cat  and Key, B J A method for studying the effect of drugs on arousal responses in the cat (T)	132, 50 <i>P</i> , 1956 134, 6 <i>P</i> , 1956
BRADLEY, R D	, Gaskell, P, Holland, W W, Lee, G de J and Young, I Maureen The acid base changes in arterial blood during adrenaline hyperphoea in	<b>122</b> , 39 <i>P</i> , 1953
"	man, Gaskell, P, Holland, W, W, Lee, G de J and Young, I Maureen. The acid base changes in arterial blood during adrenaline hyperphoca in man.	122, 397 , 1000 124, 213, 1954
Bradley, S E	, Childs, A. W., Combes, B., Cournand A., Wade, O. L. and Wheeler H. O. The effect of exercise on the splanchmic blood flow and splanchmic blood yolume in normal man	133, 9 <i>P</i> , 1956
Bradshaw, T E	and Jessop, W J E The excretion of oestrogens and pregnanediol during the last three weeks of pregnancy and the first week after delivery in fourteen normal women (T)	<b>116,</b> 10 <i>P</i> , 1951
Brasseur, L	Carbohydrate metabolism during pregnancy in the rabbit	126, 22 <i>P</i> , 1954
Brebner, D F	, Kerslake, D McK and Waddell, J L The diffusion of water vapour through human skin	132, 225, 1956
,,	, Kerslake, D McK and Waddell J L The relation between sweat rate and body temperature when heat loss is small	132, 17 <i>P</i> , 1956
Brewin, E G	and Neil $E$ Acid base studies during hypothermia , Nashat, $F$ S and Neil, $E$ The influence of tem	126, 26P, 1954
"	perature on the relationship between blood CO <sub>2</sub> tension and plasma pH  Gould, R. P., Nashat F. S. and Neil E. Changes	127 19 <i>P</i> , 1954
"	in structure and function of the liver as a result of hypothermia combined with occlusion of both venae cavae	128 45 <i>P</i> , 1955
"	and Neil, E Cardiovascular and respiratory reflex responses to stimulation of right cardiac vagal afferents (T)	130, 36 <i>P</i> 1955
	anorones (1)	

Beinges, C D B	Visual purple, some notes on the mechanism of extractants Visual pigments of the rambow trout	128, 53 <i>P</i> , 1955 129, 60 <i>P</i> , 1955
17	The visual pigments of the rainbow trout (Salmo irideus)	134, 620, 1956
BRIERLEY, J B	The penetration of <sup>32</sup> P into the nervous tissues of the rabbit	116, 24 <i>P</i> , 1951
***	Penetration of **P and **Na into nervous tissues of the rabbit	117, 6 <i>P</i> , 1952
Brindley, G S	and Willmer, E N The absorption spectrum of the macular pigmentation in the living eve (T)	116, 10 <i>P</i> , 1951
n	and Willmer, E N The reflexion of light from the macular and peripheral fundus oculi in man and Willmer E N The spectral sensitivity curves	116, 350, 1952
n	of human red and green receptors (T)  The Bunsen-Roscoe law for the human eve at very	117, 58P, 1952
35	short durations	118, 135, 1952
17	The effects on colour vision of adaptation to very bright lights	122, 332, 1953
,	The summation areas of human colour receptive mechanisms at increment threshold	124, 400, 1954
77	The site of electrical excitation of the human eve and Rushton W A H The detection of a visual	127, 189, 1955
17	pigment in hving human cones (T) The colour of light of very long wavelength Evidence concerning the origin of the electro-	128, 59 <i>P</i> , 1955 130, 35, 1955
,	retmogram (T)  The passive electrical properties of the frog's retina, choroid and sclera for radial fields and currents	133, 46 <i>P</i> , 1956
**	The effect on the frog s electroretmogram of varying the amount of retina illuminated	134, 339, 1956 134, 353, 1956
17	Responses to illumination recorded by micro electrodes from the frog s retina	134, 360, 1956
Briscoe, Shetla	and Burn $J$ $H$ Formation of acetylcholine like substance by rabbit heart	125 31 <i>P</i> , 1954
,	and Burn $J$ $H$ The formation of an acetylcholine like substance by the isolated rabbit heart	126, 181 1954
	Cholmesterase activity of left and right atma of the rabbit s heart	126, 623 1954
Briscoe W A	and Cournand A The uneven ventilation of normal human lungs at rest	
Вновеск, Ј Р	Larsson S and Peyes E A study of the electrical	130, 21 <i>P</i> 1955
Brock, L G	activity of the hypothalamic feeding mechanism, Coombs, J. S. and Eccles, J. C. Synaptic excita	132, 358, 1956
	tion and inhibition  Coombs J S and Eccles J C The recording of potentials from motoneurones with an intra-	117 8P, 1952
,	cellular electrode  Eccles Rosamond M and Keynes, R D The dis-	117, 431, 1952
,	charge of individual electroplates in Ruia clavata , Coombs, J S and Eccles J C Intracellular re cording from antidromically activated moto	122, 4 <i>P</i> , 1953
Brocklehurst V	neurones V.E. Occurrence of an unidentified substance during	122, 429, 1953
	anaphylactic shock in cavy lung	120, 16P 1953

BROCKLEHURST,W E	The isolated bronchial muscle of the cat as a test object for 5 hydroxytryptamine (T)	<b>120,</b> 38 <i>P</i> , 1953
27	Response of the cavy lleum to 'SRS A' from lung of man and of cavy	<b>128</b> , 1 <i>P</i> , 1955
"	, Humphrey, J H and Perry, W L M The role of histamine in cutaneous antigen antibody reactions in the rat	<b>129</b> , 205, 1955
Bronk, V Sylvia	and Fisher, R B The action of a purified growth hormone preparation on the carbohydrate meta bolism of the perfused rat heart	133, 7 <i>P</i> , 1956
Brooks, Chandler McC	and Fuortes, M G F The relation of dorsal and ventral root potentials to reflex activity in mammals	<b>116, 3</b> 80, 1952
Brooks, F P	and Pictford, Mary The influence of posterior lobe hormones on the excretion of Na and K in the conscious dog	131, 33 <i>P</i> , 1956
Brooks, Vernon B	and Myers, David K Cholmesterase content of normal and denervated skeletal muscle in the guinea pig	<b>116,</b> 158, 1952
,,	The action of botulinum toxin on motor nerve filaments	<b>123</b> , 501, 1954
"	An intracellular study of the action of repetitive nerve volleys and of botulinum toxin on minis ture end plate potentials	134, 264, 1956
Вкоисн, W Н	, Cooper, K E and Ferres, Helen M A modified foot plethysmograph for rapid assembly in operating theatres (T)	<b>130,</b> 1 <i>P</i> , 1955
Brown, Barbara G	and $Hey$ , $P$ Substituted choline aryl ethers as inhibitors of amine oxidase	118, 15 <i>P</i> , 1952
Brown, D	, Ferguson, I $D$ and Ramsay, A $G$ Guinea pigs reared on a diet containing synthetic ascorbic acid	121, 36 <i>P</i> , 1953
Brown, G L	, $McLennan$ , $H$ and $Pascoe$ , $J$ $E$ Failure of gang lionic transmission after postganglionic nerve section	117, 28 <i>P</i> , 1952
**	, McLennan, H and Pascoe, J E Acetylcholine metabolism of axotomized sympathetic ganglia	118, 60 <i>P</i> , 1952
**	and Pascoe, J E Conduction through the inferior mesenteric ganglion of the rabbit	118, 113, 1952
**	and Kearney, A P A method for perfusing ab dominal sympathetic ganglia (T)	120, 43 <i>P</i> , 1953
"	and Pascot, J E The effect of degenerative section of ganglionic axons on transmission through the ganglion and Lister, W C A versatile myograph stand (T)	123, 565, 1954 124, 15 <i>P</i> , 1954
,,	The effect of temperature on the release of acetyl choline from sympathetic ganglia	124, 26 <i>P</i> , 1954
**	and Holmes, O The effect of activity on mammalian C fibres	128 9P, 1955
21	and Holmes, O Action potentials of mammalian C fibres (T)	128, 37 <i>P</i> , 1955
Brown, J R	and Brown K N A portable apparatus for the measurement of skin conductivity	127, 44 <i>P</i> , 1955
"	The relationship between changes in the electrical conductivity of the skin and the number of active sweat glands (T)	127, 45 <i>P</i> , 1955

Brown, J R	and Taylor, P F Circulatory reactions to postural change as an index of heat stress and Crowden, G P The grading of muscular work	127, 55 <i>P</i> , 1955 133, 19 <i>P</i> , 1956
Brown, K. N	, Brown, J R and A portable apparatus for the measurement of skin conductivity	127, 44 <i>P</i> , 1955
Browne, K.	and Lee, J The appreciation of passive movement of the metatarsophalangeal joint of the great toe in man  Lee, J and Ring, P A The sensation of passive movement at the metatarsophalangeal joint of the great toe in man	123, 10 <i>P</i> , 1953 126, 448, 1954
BROWNE, R C	Experimental nystagmus	121, 23 <i>P</i> , 1953
Brown Grant, K	, von Euler, C, Harris, G W and Reichlin, S The	
	measurement and experimental modification of the activity of the thyroid gland of the rabbit (T), von Euler, C, Harris, G W and Reichlin, S The	120, 59 <i>P</i> , 1953
"	measurement and experimental modification of thyroid activity in the rabbit	126, 1, 1954
"	, Harris, G W and Reichlin, S The effect of emotional and physical stress on thyroid activity in the rabbit	126, 29, 1954
"	, Harris, G W and Reichlin, S The influence of the adrenal cortex on thyroid activity in the rabbit	126, 41, 1954
17	and Gibson, J G The uptake of radio iodine by the thyroid gland of the rabbit	
**	and $Gibson$ , $J$ $G$ The metabolism of exogenous and	127, 328, 1955
11	endogenous thyroid hormone in the rabbit A comparison of thyroxine and truodothyronine as inhibitors of pituitary thyrotrophic hormone secretion in the rabbit	127, 341, 1955
"	The effects of some gonadal hormones on thyroid	127, 352, 1955
**	activity in the rabbit Changes in the thyroid activity of rate exposed to	127, 390, 1955
,,	cold The effect of ACTH and adrenal steroids on thyroid	131, 52, 1956
	activity, with observations on the adrenal thyroid relationship	121 -0 20-0
***	Gonadal function and thyroid activity	131, 58, 1956 131, 70, 1956
***	and Gibson, J G The effect of exogenous and endo genous adrenaline on the uptake of radio rodine	
Browvlee, G	by the thyroid gland of the rabbit  The blocking action of polymyxm E at the skeletal	131, 85, 1956
_	nerve muscle junction (T)	123, 2P, 1953
BRUCE H M	Parles, A S and Perry, W L M The assay of ACTH on the thymus of the nestling rat (T)	117, 2 <i>P</i> , 1952
BELANT T H E	Eisen, V D, Ellis, R E and Wilson, C W $M$ The effect of ionizing radiation on tissue histamine	130, 33 <i>P</i> , 1955
BULBRING, EDITE		, 001 , 1900
"	Measurements of oxygen consumption in smooth	110 01
•	and Hooton, I N Smooth rousely potentials	110 51 D 10=0
	recorded with intracellular electrodes	120, 8P, 1953

Bülbring, Edith	Measurements of oxygen consumption in smooth muscle	<b>122</b> , 111, 1953
,	Smooth muscle potentials recorded in the taenia coli of the guinea pig	123, 55P, 1954
"	, Kottegoda, S R and Shelley, Heather Cholin esterase activity in the auricles of the rabbit's heart and their sensitivity to eserine	<b>123</b> , 204, 1954
**	and Hooton, $I$ $N$ Membrane potentials of smooth muscle fibres in the rabbit's sphincter pupillae	<b>125</b> , 292, 1954
"	Membrane potentials of smooth muscle fibres of the taenia coli of the guinea pig	125, 302, 1954
**	Membrane potentials and tension in smooth muscle (T)	126, 2P, 1954
,	Born, G V R and The determination of ATP by firefly luminescence (T)	126, 11 <i>P</i> , 1954
,,	Born, G V R and The effect of 2,4 dimitrophenol (DNP) on smooth muscle	126, 24 <i>P</i> , 1954
,	Correlation between membrane potential, spike discharge and tension in smooth muscle	127, 9P, 1954
"	Born, G V R and The effect of 2 4 dinitrophenol (DNP) on the smooth muscle of the guinea pig s taenia coli	<b>127,</b> 626, 1955
"	Correlation between membrane potential, spike discharge and tension in smooth muscle	128, 200, 1955
"	Similarity between the behaviour of striated muscle deficient in calcium and that of certain smooth	129, 22 <i>P</i> , 1955
"	muscle  Born, G V R and The movement of radioactive potassium between smooth muscle and the sur	
"	rounding fluid  Born, G V R and The movement of potassium between smooth muscle and the surrounding	130, 55P, 1955
"	fluid  , Holman, Mollie E and Lüllmann, H Membrane potential and spontaneous activity in calcium	131, 690, 1956
,,	deficient striated muscle of the frog , Holman, Mollie E and Lüllmann, H Effects of	132, 12P, 1956
<i>"</i>	calcium deficiency on striated muscle of the frog	133, 101 1956
Bulbrook, R D	and Ottaway, J H Effects of pituitary growth hormone on glucose utilization by muscle	123 57P, 1954
BULL, A B	, Cole, J Epstein, H G and Glees, P The effects of injecting a local anaesthetic into the subcortex of the cat (Film) (T)	<b>129</b> , 7 <i>P</i> , 1955
BULLER, A	, Styles, P and Tanner, J M Six channel cathode ray recording apparatus (T)	116, 3 <i>P</i> , 1951
"	, Nicholls, J G and Strom, G Spontaneous fluctuations of excitability in the muscle spindle of the frog	122, 409, 1953
"	An aid to the oscillographic display of two short lasting wave forms separated by a known rela	127, 3 <i>P</i> , 1954
**	and Dornhorst, A C Sound transmission of the normal chest (T)	127, 5P 1954
,,	and Dornhorst, A C Method of investigating the ankle jerk in man (T)	127 5P 1054
,	and Dornhorst, A C Autogenetic inhibitory im pulses from human muscle	128, 20 <i>P</i> , 1955

Bullock, T H	and Diecle, F P J Properties of an infra red receptor	134, 47, 1956
BULLIER, M G	and Forwell, G D The concentration of sodium in thermal sweat	127, 17 <i>P</i> , 1954
"	and Forwell, G D The concentration of sodium in thermal sweat	132, 115, 1956
Burgen, A S V	and Terroux, Kathleen G The membrane resting and action potentials of the cat auricle	119, 139, 1953
"	and Terroux, Kathleen G On the negative motropic effect in the cat's suricle  The secretion of potassium in saliva	120, 449, 1953 132, 20, 1956
"	Secretion of plasma proteins in saliva (T)	133, 54P, 1956
Burke, W	, Katz, B and Machne, Xenia The effect of quater nary ammonium ions on crustacean nerve fibres and Ginsborg, B L Intracellular recording from	122, 588, 1953
,,	slow muscle fibres in the frog (T)	128, 31 <i>P</i> , 1955
•	and Ginsborg, B. L. Membrane changes responsible for the small nerve junctional potential and Ginsborg, B. L. The electrical properties of the	<b>129,</b> 9 <i>P</i> , 1955
***	slow muscle fibre membrane and Ginsborg, B L The action of the neuromuscular	132, 586, 1956
,,	transmitter on the slow fibre membrane	132 599, 1956
Bur J H	, Kordil, Pamela and Mole, R H Effect of Xirradiation on the cholinesterase in rat	11/ 27 1021
,,	intestine and Robinson, Judith Effect of denervation on	116, 5P, 1951
	amine oxidase in the nictitating membrane and Spinks, A Thyroid hormone and amine oxi	116, 21 <i>P</i> , 1951
**	dase in the liver	116, 46P, 1952
"	and Robinson, Judith Restoration of amine oxidase in denervated tissues	117, 35P, 1952
>>	Bulbring, E, —— and Kottegoda, S R The action of eserme on isolated rabbit's auricles and Fleel enstein, A Augmentation and diminution	118, 31 <i>P</i> , 1952
	of sensitivity to sympathomimetic amines by dener ation of the cat's nictitating membrane and Robinson, Judith Hypersensitivity of the	118 34 <i>P</i> , 1952
,	denervated metitating membrane and amine oxidase and Kottegoda, S R Action of eserue on the	120, 224, 1953
"	auricles of the rabbit heart and Walker, $J$ M Anticholinesterases in the heart-	121, 360, 1953
	lung preparation	124, 489, 1954
39	Briscoe, Sheila and Formation of acetylcholine like substance by rabbit heart	125, 31 P, 1954
21	, Vaughan Williams, E M and Walker, J M Production of auricular fibrillation by acetylcholine in the heart lung preparation when the heart is	
"	driven electrically (T) , Vaughan Williams E M and Walker, J M Action of anticholinesterases and of acetyl	126, 2P, 1954
,	cholme on the electrically driven heart lung preparation  Briscoe, Sheila and The formation of an acetyl cholme like substance by the isolated rabbit	126 43P, 1954
	heart some some rapping	126, 181, 1954

Burn, J H	, Vaughan Williams, E M and Walker, J M Production of auricular fibrillation by electrical stimulation of the heart-lung preparation in the	
"	presence of anticholinesterases, Vaughan Williams, E. M. and Walker, J. M. The effects of acetylcholine in the heart-lung preparation including the production of auricular fibril	128, 4P, 1955
"	lation, Vaughan Williams, E M and Walker, J M The formation of acetylcholine in the heart, its effect on the systemic output and its importance for	
"	auricular fibrillation caused by aconitine and Walker, J M The effect of KCl on auricular fibrillation produced by electrical stimulation in	131, 317, 1956
,,	the presence of acetylcholine  Armitage, A K, —— and Gunning, A J Method of studying ventricular fibrillation in the isolated	131, 8 <i>P</i> , 1956
,,	heart (T)  Armstage, A K, —— and Gunning, A J Factors affecting ventricular fibrillation	133, 6 <i>P</i> , 1956 133, 62 <i>P</i> , 1956
BURNS, B DELISLE	and Grafstein, Bernice The function and structure of some neurones in the cat's cerebral cortex	118, 412, 1952
"	The production of after bursts in isolated un anaesthetized cerebral cortex The mechanism of after bursts in cerebral cortex	125, 427, 1954 127, 168, 1955
Burns, W	and Morris, G A A recording audiometer	131, 4 <i>P</i> , 1956
		101, 11 , 1000
Burry, H S	Allwood, M J and The effect of local temperature on blood flow in the human foot (T)  Allwood, M J and The effect of local temperature	118, 68 <i>P</i> , 1952
	on blood flow in the human foot	124, 345, 1954
BURSTALL, PAMELA A	, Catton, W T Heslop, T S, Schofield, B and Wright, D E An attempt to produce continuous stimulation of the vagal innervation of the stomach by phrenic vagus anastomosis in dogs	<b>117</b> , 58 <i>P</i> , 1952
"	and Schofield, B Secretory effects of psychic stimulation and insulin hypoglycaemia on Heidenhain gastric pouches in dogs	<b>120,</b> 383, 1953
,,	and Schofield, $\bar{B}$ A technique for the simultaneous investigation of secretion and motility in gastrio	·
**	pouches in dogs (T), Cox, E V, Robson, J G, Ross, D C, Schofield, B and Ungley, C C The preparation of pyloric gastric pouches in pigs as a source of Castle s	121, 3 <i>P</i> , 1953
"	and Schofield, B The effects of pyloric antrectomy on the secretory response of Heidenhain pouches	121, 3 <i>P</i> , 1953
"	in dogs to central vagal stimulation and Schofield, B The effects of pyloric antrectomy on the secretory response of Heidenhain pouches	<b>121,</b> 16 <i>P</i> , 1953
	ın dogs to central vagal stımulatıon	<b>123,</b> 168 1954
Burtt, E T	and Catton, W T Nerve impulses in the locust in response to visual stimuli and Catton, W T Visual responses in the locust	117, 58P 1952 121, 10P, 1953
"	and Catton, W T Visual perception of movement in the locust	125, 566, 1954

## INDEX OF AUTHORS

BURTT, E T	and Catton, W T Electrical activity in the eye of the locust	126, 27 <i>P</i> , 1954
"	and Catton, W T Electrical responses to visual stimulation in the optic lobes of the locust and certain other insects	133, 68, 1956
Buser, P	Albe Fessard, D, — and Fessard, A Complex wave patterns from the electric lobe of Torpedo marmorata (T)	117, 9 <i>P</i> , 1952
Butler, J	Pincock, A C and Arnott, W M A pressure volume diagram recorder for respiration in man	124, 6 <i>P</i> , 1954
,,	The adaptation of the relaxed respiratory system to changes in volume	134, 14 <i>P</i> , 1956
BUTTERFIELD, W J H	A flow calorimeter for the human finger (T)	123, 51 P, 1954
Buttle, G A. H	, D Arcy, P F and Howard, E M The effect of cortisone acetate in protecting adrenalectomized and normal mice against cold stress	<b>123</b> , 5 <i>P</i> , 1953
Buxton, Joyce	, Mayer, Agnes and Sindair, H M Histamine levels in the pyridoxin deficient rat	131, 17 <i>P</i> , 1956
Byford, G H	, Hallphe, C S and Hood, J D A new type of rotating chair for the investigation of semi circular canal function	<b>123</b> , 22 <i>P</i> , 1953
Cairns, H	, Cole, J, Epstein, H G, Gardner, M and Glees, P Temporary depression of cortical function by local anaesthetic and cooling	119, 44 <i>P</i> , 1952
Caldeyro Barcia	,R Alvarez, H and Investigations of the contractility of the human uterus (T)	118, 13 <i>P</i> , 1952
CALDWELL, P C	Measurement of intracellular pH by means of a tungsten micro electrode	120, 31 <i>P</i> , 1953
"	Glass nucro electrode suitable for measurement of intracellular pH of large cells	
"	An investigation of the intracellular pH of crab muscle fibres by means of micro glass and micro	406 400
77	tungsten electrodes  and Downing, A C The preparation of capillary microelectrodes	
11	Studies of ionic mobilities in the giant axon of the squid by means of an intracellular electrode	128, 31 P, 1955
27	system  The effects of certain metabolic inhibitors on the	129, 16 <i>P</i> , 1955
Calma, I	phosphate esters of the squid giant axon The reflex activity of the respiratory centre	132, 35 <i>P</i> , 1956
,	Impulses in efferent cerebellar fibres	117, 9, 1952 118, 43 <i>P</i> , 1952
,,	and Kidd, G L A stereotaxic instrument with fine control of electrode movement	3
**	and Kidd, G L Observations on the cerebellar responses to afferent and cerebellar cortical stimulation	1
CAMBRIDGE, G	W and Wyke, B D Influence of stimulus parameter	129, 57P, 1955
"	variation upon responses in limb muscles to electrical activation of the cerebral cortex and Wyke, B D The action of barbiturates on the electrical activity of the brain of the cat, with particular reference to electrographic monitoring	120, 28 <i>P</i> , 1953
	of narcosis during cortical stimulation	g 120, 56 <i>P</i> , 1953

CAMBRIDGE, G W	and Wolstencroft, J H The action of sodium succinate on respiration in the anaesthetized cat	<b>122</b> , 30 <i>P</i> , 1953
,,	and Holgate, J A The investigation of pharmaco logical activity in rabbit plasma by (1) the per fused rabbit ear, and (2) superfused isolated tissues (T)	
"	and Holgate, J A The effect of mepyramine maleate on the activity of histamine and 5 hydroxytryptamine on the isolated superfused guinea pig ileum (T)	
"	and Holgate, J A A method for the identification of 5 hydroxytryptamine	
CAMPBELL, B	Chromatolysis and the model of the neurone	124, 28P, 1954
CAMPBELL, E J M	An electromyographic study of the role of the abdominal muscles in breathing	<b>116,</b> 49 <i>P</i> , 1952
***	An electromyographic study of the role of the abdominal muscles in breathing	117, 222, 1952
"	and Green, J H The mechanics of breathing studied by simultaneous spirometry, electro myography and recording of the intragastric pressure (T)	<b>119,</b> 31 <i>P</i> , 1952
"	and Green, J H The expiratory function of the abdominal muscles in man An electromyo graphic study	<b>120,</b> 409, 1953
"	and Green, J. H. The variations in intra abdominal pressure and the activity of the abdominal muscles during breathing a study in man	<b>122</b> , 282, 1953
,,	and Green, J. H. The behaviour of the abdominal muscles and intra abdominal pressure during quiet breathing and increased pulmonary ventilation. A study in man.  An electromyographic examination of the role of the intercostal muscles in breathing in man.  Enns. T., Martin, H. B. and Shepard, R. H.	127, 423, 1955 129, 12, 1955
"	Factors affecting the pulmonary dead space as determined by single breath analysis (T)	130, 57 <i>P</i> , 1955
CAMPBELL, F W	and Primrose, J A E The state of accommodation of the human eye in darkness (T) and Weir, J B deV The depth of focus of the	116, 52 <i>P</i> , 1952
"	human eye and Whiteside, T C D A cine film record of lens	<b>120,</b> 59 <i>P</i> , 1953
"	changes during accommodation of the human	121, 27 <i>P</i> , 1953
,,	The light minimum required to elicit the accommodation reflex in man  The minimum quantity of light required to elicit	122, 34P, 1953
,	the accommodation reflex in man A method for measuring the depth of field of the	123, 357, 1954
,,	human eye	125, 11 <i>P</i> , 1954
,,	and Rushton, W A H An apparatus for mea suring rhodopsin in the human eye (T) The depth of focus of the human eye	125, 15 <i>P</i> , 1954 125, 29 <i>P</i> , 1954
,	and Rushton, W A H The measurement of rhodop	126, 36 <i>P</i> , 1954
"	sin in the human eye and Rushton, W A H Measurement of the scotopic pigment in the living human eye	130 131 1955
,,	A high speed infra red recording optometer	133, 31P 1956

CAMPBELL,	, Hughes, W Howard and Stewart, H C Influence of osmosis on gut response (T)	120, 22 <i>P</i> , 1953
JOSEPHINE CAMPLING, J D	and Nixon, D A The mostfol content of foetal blood and foetal fluids	126, 71, 195 <del>1</del>
CARD, W I	, Marks, I N and Streus, W Observations on achlorhydna	130, 18 <i>P</i> , 1955
Carey, Vary J	and Convay, E J Sodium distribution in muscle (T) and Convay, E J Comparison of various media for immersing frog sartoru at room temperature, and evidence for the regional distribution of	125, 66 <i>P</i> , 1954
CARLILL, S D	fibre Na <sup>+</sup> and Duke, Helen N Effects of variations in left	125, 232, 1954
"	auricular pressure on pulmonary arterial pressure and Dul e, Helen N Pulmonary vasomotor responses to changes of left auricular pressure	123, 44P, 1953 131, 12P, 1956
29	and Dul'e, Helen N Pulmonary vascular changes m response to variations in left auricular pressure	133, 275, 1956
CARLYLE, A	, Field, E J, Grayson, J and Rogers, A F Blood flow reactions in the brain	124 56P, 1954
**	Response of the uterus of the pregnant sheep to adrenaline and pitocin	124, 68 <i>P</i> , 1954
**	and Grayson J Blood pressure and the regulation of brain blood flow	127, 15 <i>P</i> , 1954
**	and Grayson, J Factors involved in the control of cerebral blood flow	133, 10, 1956
Casida, J E	Comparative enzymology of certain insect acetyl esterases in relation to poisoning by organo phosphate insecticides	127, 20 <i>P</i> , 1954
CASS ROSEMARY	, Head, K W, Riley, J F, Stroud, S W and West G B Heparm and histamine m mast cell tumours	125, 47 <i>P</i> , 1954
CASSELMAN, W G BRUCE	and Rappaport A M 'Guided' catheterization of hepatic veins and estimation of hepatic blood flow by the bromsulphalem method in normal dogs and Rappaport, A M Estimated hepatic blood flow and bromsulphalem clearance in dogs with	124, 173, 1954
Castillo, J DEL	experimental ischaemia of the liver	124, 183, 1954
CATER, D B	and Stacl Dunne, M P The rate of decay of mutotic activity in the adrenal cortex of the rat following hypophysectomy and Stacl Dunne, M P The time of onset of mutotic activity in the adrenal cortex of the hypophysectomized rat following injections of	127, 265, 1955
•	growth hormone  , Phillips A F and Silver, I A Measurement of oxidation reduction potentials and pH of tissues in vivo	127, 273, 1955
CATION, W T	Burtl E T and Nerve impulses in the logist in	129 33P, 1955
"	response to visual stimuli  Burstall, Pamela A —, Heslop, T S Schofield  B and Wright D E An attempt to produce continuous stimulation of the vagal innervation of the stomach by phrenic vagus anastomosis in dogs	) 1 3
	- 6-	117, 58P, 1952

į

r Î

P 1

14

 $\frac{1}{l_{r_{L'}}}$ 

	000111111111111111111111111111111111111	
CATTON, W T	Burtt, E T and Visual responses in the locust Eosinophilic cells in the intestinal mucosa and	121, 10 <i>P</i> , 1953
,,	submucosa  Burtt, E T and Electrical activity in the eye of	<b>121,</b> 17 <i>P</i> , 1953
,	the locust  Burtt, E T and Visual perception of movement in	126, 27P, 1954
	the locust	125, 566, 1954
,	and Molyneux, L A new stimulator using a transistor relaxation oscillator	128, 27P, 1955
	Burtt, E T and Electrical responses to visual stimulation in the optic lobes of the locust and certain other insects	<b>133,</b> 68, 1956
Causey, G	and Palmer, E The mixing of the myelin and axo plasm and their subsequent separation following the crushing of mammalian nerves	<b>117,</b> 20 <i>P</i> , 1952
	<ul> <li>and Stratmann, C J The spread of failure of conduction in degenerating mammalian nerve</li> <li>and Stratmann, C J The relative importance of the</li> </ul>	119, 45P, 1952
	blood supply and the continuity of the axon in recovery after prolonged stimulation of mam malian nerve	<b>120,</b> 373, 1953
,	and Stratmann, C J The spread of failure of conduction in degenerating mammalian nerve	121, 215, 1953
	and Stratmann, C J Recovery of degenerating mammalian nerve after prolonged stimulation	123, 234, 1954
,,	and Hoffman, H Axosomatic synapses in the superior cervical ganglion	130, 50P, 1955
CAUSLEY, D J	, Norrie, G O, Roberts, F and Young, J Z Counting of microscopic particles (T)	<b>120, 32</b> <i>P</i> , 1953
CERF, J	and $Heuson$ , $J$ An electrotonic restoration of nerve conduction in heat block of the frog sciatic nerve	126, 12 <i>P</i> , 1954
CERQUIGLINI, S	Bradley, P B —— and Elkes, J Some effects of dissopropy lfluorophosphate on the electrical activity of the brain of the cat	<b>121,</b> 51 <i>P</i> , 1953
CHAGAS, C	, Ferreira, H M and Sollero, L The utilization of acetylcholine during the discharge of Electro phorus electricus (T)	117, 9 <i>P</i> , 1952
CHALMERS, T M	, Lewns, A A G and Pawan, G L S The effect of acute reduction of the glomerular filtration rate on sodium excretion in man	117, 218, 1952
,,	and Squires, R D Observations on the renal response to motionless standing	122, 58P, 1953
,,	and Pawan, G L S Potassium depletion due to purgatives (T)	130, 36 <i>P</i> , 1955
CHAMBERS, R A	and Gilliatt, R W The clinical assessment of postural sensation in the fingers	123, 42 <i>P</i> , 1953
Chanda, R	, Clapham, Helen M and Owen E C The effect of carotene deprivation on the composition of the blood of the cow	121, 42 <i>P</i> , 1953
CHAPLIN, H Jr	Precision of red cell volume measurement using <sup>22</sup> P labelled cells	<b>123,</b> 22, 1954
CHEESMAN, D F	The simultaneous estimation of glucose and fructose in blood	116 18P, 1951
,,	The effect of ATP on unimolecular films of myosin and actomyosin	116, 34 <i>P</i> , 1951

CHEESEMAN, D F	Ovordom	131, 3 <i>P</i> , 1956
CHEN, J M.	The effect of insulin on embryonic limb bones cultivated in vitro	125, 148, 1954
CHENVELLS, MARY	and Floyd, W F Reflex activity in abdominal and limb muscles	118, 196, 1952
79	and Floyd, W F Interaction of limb and ab dominal reflexes in the cat (T)	119, 31 <i>P</i> , 1952
***	and Floyd, W $F$ Effects of posture and of parameters of stimulation on reflexes in man	130, 31 <i>P</i> , 1955
CHESHER G B	and Collier, $H$ O $J$ Identification of 5-hydroxy-tryptamine in nettle sting	130, 41 <i>P</i> , 1955
CHILDS A. W	Bradley S E, —, Combes, B, Cournand, A, Wade O L and Wheeler, H O Effect of exercise on the splanchnic blood flow and splanchnic blood volume in normal man	133, 9 <i>P</i> , 1956
CHINARD, F P	, Danesino, V., Huagett, A. St. G., Paul, W. M. and Reynolds, S. R. M. The passage of sugars across the monkey placenta	127, 8P 1954
11	, Danesino, V. Hartmann, W. L., Huggett, A. St. G., Paul, W. and Reynolds S. R. M. The trans- mission of hexoses across the placenta in the human and the rhesus monkey (Macaca mulatta)	132, 28°, 1956
CHUNGCHAROEN D	, Daly, M de Burgh and Schweitzer, A The blood supply of the carotid body	117, 11 <i>P</i> , 1952
**	Daly M de Burgh and Schweitzer, A The blood supply of the superior cervical and nodose gangha (T)	117, 19 <i>P</i> , 1952
,	, Daly M de Burgh, Neil, E and Schreitzer, A The effect of carotid occlusion upon the intra sinusal pressure with special reference to vascular communications between the carotid and verte bral circulations in the dog, cat and rabbit , Daly, M de Burgh and Schreitzer, A The blood supply of the carotid body in cats dogs and	117, 56, 1952
,	rabbits , Daly M de Burgh and Schweitzer, A The blood supply of the superior cervical sympathetic and the nodose ganglia in cats, dogs and rabbits	117, 347, 1952
Спинси, А.	and $Ridge$ , $J$ $W$ A three syringe constant injection apparatus	118, 528 1952 127, 43 <i>P</i> , 1955
CHURCHILL- DAVIDSON, H (	and Richardson A T Neuromuscular trans mission in invasthenia gravis , Lynn R B McMillan, I K P and Melrose, D G A demonstration of the reduction of the body temperature in dogs by surface cooling	122, 252, 1953 124, 8 <i>P</i> , 1954
CLAPRAM HELES	M. Chanda, R — and Owen E C The effect of carotene deprivation on the composition of the blood of the cow	•
CLARINGBOLD, P	J Biggers, J D —— and Hardy, Margaret H The action of oestrogens on the vagma of the mouse in tissue culture	• •
CLARK SHEENA	M and Iball J An X ray diffraction study of the	131, 497, 1956
	structure of bone sections (T)	130, 8P, 1955

ı

CLARKE, E W	and Whaler, B C The utilization of <sup>14</sup> C labelled amino acids by the isolated mammalian heart A simple microcalorimeter A small perfusion pump	117, 9 <i>P</i> , 1952 123, 51 <i>P</i> , 1954 129, 37 <i>P</i> , 1955
"	A gas analysis apparatus for class use (T)	133, 34 <i>P</i> , 1956
CLARKE, R S J	, Duff, F and Thompson, I D Direct recording of arterial blood pressure in man	118, 55 <i>P</i> , 1952
"	The effect of voluntary overbreathing on the blood flow through the human forearm	118, 537, 1952
"	and Hellon, R F Measurement of forearm blood flow by strain gauge and volume plethysmo graphs	133, 24 <i>P</i> , 1956
Clarkson, Evelyn M	and Mazzels, M Distribution of phosphatases in erythrocytes	116, 112, 1952
"	and Marzels, M Respiration, glycolysis and sodium transport in chicken erythrocytes	<b>124</b> , 19 <i>P</i> , 1954
"	and Mazzels, M Sodium transfer in human and chicken erythrocytes	129, 476, 1955
"	and Maizels, M Sodium transfer in the erythro cytes of sickle cell anaemia	129, 504, 1955
"	Adenosine and sodium transfer in stored human erythrocytes	131, 34 <i>P</i> , 1956
CLAYTON, C G	, Latner, A $L$ and Schofield, B The absorption of radio active $B_{12}$ in normal and gastrectomized rats	129, 56 <i>P</i> , 1955
CLEMENTE, C D	The innervation of the area postrema	124, 23P, 1954
CLEMETSON, C A. B	Oxygen saturation of the umbilical artery and vein blood at birth, with special reference to cord obstruction (T)	119, 41 <i>P</i> , 1952
CLIFT, A F	and Hart J Variations in the apparent viscosity of human cervical mucus	122, 358, 1953
CLUTTON BROCK, J	A self filling electronically controlled syringe, delivering a set quantity of fluid at variable intervals of time (T)	124, 53 <i>P</i> , 1954
COATON, J W	and Whitfield, I C Reproduction of the wave forms of nerve activity by magnetic tape recording	125, 13 <i>P</i> , 1954
COATS, D A	, Denton, D A, Goding, J R and Wright, R D Secretomotor mechanisms of the sheep's parotid gland (T)	129, 7 <i>P</i> , 1955
,,	, Denton, D A, Goding, J R and Wright, R D Secretion by the parotid gland of the sheep	131, 13, 1956
Совв, W А	and Morton, H B A mechanical shutter giving brief rectangular light pulses at low repetition	<b>123</b> , 29 <i>P</i> , 1953
"	, Morton, H B and Wright, M K A universal head holder (T)	123, 30 P, 1953
"	and Morton, H B A new component of the human electroretmogram	123, 36 <i>P</i> , 1953
,,	Cowan W M, Powell, T P S and Wright M K. Some observations on the interaction between evoked strychnine spikes and specific responses in the visual cortex of the cat	128, 54P, 1955

	INDIA OF HOLE	
Созв, W Д.		129, 305, 1955
17	Coran W M, Powell, T P S and Wright, M K Intracortical excitation following strychnine spikes	129, 316, 1955
COBBOLD, A F	and Vass C C N Influence of noradrenalme on blood flow through skeletal muscle	117, 12 <i>P</i> , 1952
17	and Tass, C C N Pesponses of muscle blood vessels to intra arterially and intravenously administered noradrenalme	120, 105, 1953
•	and Sigles, P P An improved electromagnetic flowmeter	127, 1 <i>P</i> , 1954
n	Barcroft H and On the action of adrenalme on muscle blood flow and blood lactate in man Barcroft H and On the action of intravenous	131, 10 <i>P</i> , 1956
17	pitressin on forearm blood flow and blood lactate in man	132, 10 <i>P</i> , 1956
,	Barcroft H and The action of adrenaline on muscle blood flow and blood lactate in man and Leure, O J Blood flow to the knee joint of the	132, 372, 1956
27	dog Effect of heating, cooling and adrenalme and Lexis, O J Some responses of joint blood	132, 379, 1956
,	vessels and Levie, O J The nervous control of joint blood	132 63P, 1956
,	vessels  and Leure O J The action of adrenalme, nor	133, 467, 1956
11	adrenalme and acetylcholme on blood flow through joints	133, 472, 1956
Code, C F	, Deus, P B and Highns G M The relationship of the adrenal gland to concentration of hist- amine and number of leucocytes in the blood of	
77	rabbits and Wathinson, G. The dependence of the inhibition of gastric secretion by acid in the duodenum.	121, 487, 1953
17	upon vagal unnervation and Wallinson, G Importance of vagal mnerva- tion in the regulatory effect of acid in the	128, 39 <i>P</i> , 1955
27	duodenum on gastric secre ion of acid  and Irrine, W T The output of HCl in gastric juice and free histamine in urine during stimulation of	130 233 1955
Cohen M. J	gastric s-cretion  Hagiwara S and Zo <sup>n</sup> erman Y Impulse patte-n	133, 51P, 1956
57	of taste (T)  The function of receptors in the statocyst of the	170 (27) 10==
COEN P	lobster Homarus american is Gailonde M K and Pich er D The localization of pro em formation in the rat brain	130, 9, 1955
COLE ANVES	Blood alanine concentration, alanine absorption ra e and gastric emptying	
Core D L	Changes of cell sodium in response to administra- tion of hypotonic saline in normal and adrenal.	124 66P 1954
Cole J	ectomized rats and Gless, P Iprilateral impairment following	121, 18 <i>P</i> 1953
3	area 4 lesions in monkeys	117, 54P 1952
		PAI

Cole, J	Training monkeys for the study of cerebral lesions (Film) (T)	118, 24 <i>P</i> , 1952
"	Carrns, H, —, Epstein, H G, Gardner, M and Glees, P Temporary depression of cortical function by local anaesthetic and cooling Bull, A B, —, Epstein, H G and Glees, P The	119 44P, 1952
	effects of injecting a local anaesthetic into the subcortex of the cat (Film) (T)	129, 7P, 1955
11	and Gless, P Effects of lesions in the posterior parietal lobe in trained monkeys	129, 49P, 1955
"	and Glees, P Effects of reserpin and ritalin on monkeys (Film) (T)	133, 1 <i>P</i> , 1956
Cole, P	Temperature and humidity of respiratory air	122, 51P, 1953
"	and Mills, $J$ $N$ Modification of Haldane gas analysis apparatus for use by jumor students	<b>124,</b> 60 <i>P</i> , 1954
Coleridge, J C G	and Hemingway, A Partition of the venous return to the heart (T)	<b>120,</b> 29 <i>P</i> , 1953
**	and Landen, R J The effect of increased venous return upon the heart rate	122, 50P, 1953
"	and Linden, R J Recording of effective right and left atrial pressures in the intact dog	<b>122</b> , 65 <i>P</i> , 1953
"	and Hemingway, A A perfusion pump for large outputs	122, 67P, 1953
,,	and Linden, R J Intrapleural and mediastinal pressures in relation to effective atrial pressure (T)	122, 70 <i>P</i> , 1953
,,	and Linden, R J The measurement of effective atrial pressure	126, 304, 1954
**	and Linden, R J The effect of intravenous in fusions upon the heart rate of the anaesthetized dog	127, 31 <i>P</i> , 1954
"	and Linden, R J The effect of intravenous in fusions upon the heart rate of the anaesthetized	128, 310 1955
<b>39</b>	and Linden, R J The effect upon the heart rate of increasing the venous return by opening an arteriovenous fistula in the anaesthetized	
	$\operatorname{dog}$ , Hemingway, A, Holmes, R L and Linden, R J	130, 674, 1955
,,	Atrial receptors in the dog	132, 68P, 1956
Coles, D R	and Greenfield, A D M Heat elimination from the hands during local exposure to subatmospheric pressures	<b>128,</b> 58 <i>P</i> , 1955
"	and Greenfield, A D M The reactions of the blood vessels of the hand during increases in trans mural pressure	131, 277, 1956
**	Heat elimination from the toes during exposure of	
"	the foot to subatmospheric pressures, Kidd, B S L and Patterson, G C The response of the blood vessels of the human calf to increases	131, 5P 1956
	in transmural pressure, Kidd, B S L and Patterson, G C The reactions	<b>132</b> , 46 <i>P</i> , 1956
n	of the blood vessels of the human calf to in creases in transmural pressure	<b>134</b> 665, 1956
COLLIER, H O J	Chesher, G B and Identification of 5 hydroxy tryptamine in nettle sting	130 41 <i>P</i> , 1955

Collin, R	Borragan, J, —— and Whitteridge, D. Anatomical and physiological studies of the olive in the cat (T)	118, 5 <i>P</i> , 1952
Collins, K J	and Hellmann, K The effect of heat exposure on thyroid and salivary gland activity in the mouse and Hellmann, K The Harderian glands of mice following exposure to high environmental	128, 49 <i>P</i> , 1955
"	temperatures . Hellmann, K., Lunnon, Barbara J and Weiner,	129, 3P, 1955
	J S Effect of heat exposure on urmary excretion of adrenocorticosteroids in man (T)	129, 26P, 1955
Combes, B	Bradley, S. E., Childs, A. W., ——, Cournand, A., Wade, O. L. and Wheeler, H. O. Effect of exercise on the splanchnic blood flow and splanchnic blood volume in normal man	133, 9 <i>P</i> , 1956
Comport, A	and Weatherall, M Porphyrms from the urme of rabbits exposed to lead	119, 5 <i>P</i> , 1952
39	Effect of large doses of heparin, and of heparin clearing factor, on lipoprotein migration in the rabbit	127, 225, 1955
,,	The action of tissue extracts and of clearing factor on the electrophoretic migration of serum lipo proteins	<b>134,</b> 102, 1956
COMLINE, R S	, Pomeroy, R W and Tatchen, D A Histological changes in the intestine during colostrum ab sorption	<b>122</b> , 6 <i>P</i> , 1953
>>	and Kay, R N B Reflex secretion by the parotid gland of the sheep	129, 55 <i>P</i> , 1955
Compaton, N D	The use of 'Angiopac' for outlining the spleen radiologically (T)	119, 34 <i>P</i> , 1952
Conway, E J	and McCormack, J I The total intracellular con- centration of mammalian tissues compared with	
**	that of the extracellular fluid  Carey, Mary J and Sodium distribution in  muscle (T)	120, 1, 1953
,,	Beary, Mary, —, and Ryan, H Active transport of magnesium in yeast (T)	125, 66 <i>P</i> , 1954
71	Carey, Mary J and Comparison of various media for immersing frog sartorii at room temperature, and evidence for the regional distribution of	125, 66P, 1954
,	fibre Na <sup>+</sup> , Geoghegan, Honor and McCormack, J I Autolytic changes at zero centigrade in ground mam	125, 232, 1954
n	malian tissues and Geoghegan, Honor Molecular concentration of kidney cortex slices	130, 427, 1955
Conway, H	, Meille, R W and Simpson, J A Tubeless gastrio	130, 438, 1955
CONWAY, J	The effect of ganglion block and L noradrenaline on the blood pressure of normal and hypertensive	121, 41 <i>P</i> , 1953
"	The behaviour of the blood pressure in normal and hypersensitive rabbits in response to 1-nor adrenaline and to ganglion block by here on	125, 33 <i>P</i> , 1954
	pentamethonium	127, 69, 1955

Cook, H F	The pain threshold for microwave and infra red radiations	<b>118,</b> 1, 1952
"	Apparatus and method used to investigate the pain threshold for microwave radiation (T)	<b>119,</b> 31 P, 1952
Cook, R H.	, Hodgkin, A L and Horowicz, P The effect of rapid changes in ionic concentration on the tension produced by single muscle fibres (T)	133, 27 <i>P</i> , 1956
Cooley, G	Some observations on impurities present in samples of Evan's Blue (T 1824) and their influence on blood volume determinations effected by the dye method	<b>123</b> , 16, 1954
Coombs, J S	Brock, L G, —— and Eccles, J C Synaptic excitation and inhibition	117, 8 <i>P</i> , 1952
,,	Brock, L G, — and Eccles, J C The recording of potentials from motoneurones with an intra cellular electrode	117, 431, 1952
,,	Brock, L G —— and Eccles, J C Intracellular recording from antidromically activated moto	
"	neurones , Eccles, J C and Fatt, P The electrical properties	122, 429, 1953
	of the motoneurone membrane, Eccles, J C and Fatt, P The specific ionic con	<b>130,</b> 291, 1955
"	ductances and the ionic movements across the motoneuronal membrane that produce the in hibitory post synaptic potential	130, 326, 1955
**	, Eccles, J C and Fatt, P Excitatory synaptic action in motoneurones	130, 374, 1955
,,	, Eccles, J C and Fatt, P The inhibitory suppression of reflex discharges from motoneurones	130, 396, 1955
Cooper, J D	Bates, J A V and A method of making audible fluctuations in the 0 1-20 c/s range (T)	123, 28 <i>P</i> , 1953
,,	Bates J A V and A simple electronic circuit for measuring a voltage time integral	123, 28 <i>P</i> , 1953
COOPER, K E	and Kerslake, D McK Abolition of nervous reflex vasodilatation by sympathectomy of the heated area	<b>119,</b> 18, 1953
"	, Edholm, O G and Mottram, R F The partition of the blood flow between skin and muscle in the human forearm	<b>123</b> , 33 <i>P</i> , 1953
"	, Edholm, O G, Fletcher, J G, Fox R H and Macpherson, R K Vasodilatation in the forearm during indirect heating	125, 56 <i>P</i> , 1954
"	and Kerslake, D McK Vasoconstriction in the hand during electrical stimulation of the lumbar sym pathetic chain in man	<b>127</b> , 134, 1955
,,	, Edholm, O G and Mottram, R F The blood flow in skin and muscle of the human forearm	128, 258, 1955
"	Brough, W H, —— and Ferres, Helen M A modified foot plethysmograph for rapid assembly in operating theatres (T)	<b>130</b> , 1 <i>P</i> , 1955
"	A comparison of oesophageal, rectal and para	
,,	aortic temperatures during hypothermia in man, Ferres Helen M and Mottram, R F Changes in hand blood flow evoked by rapid alteration of the	130, 10 <i>P</i> , 1955
	radiant heat exchange between the front of the body and the environment	131, 29 <i>P</i> , 1956

	INDIA OF HOTHORA	
Cooper, K. E	flow changes occurring when the body temperature is raised in the chronic spinal man	132, 11 <i>P</i> , 1956
Cooper, Sybil	and Fillenz, Marianne Afferent discharges from the extrusic eye muscles of the cat	118, 49 <i>P</i> , 1952
***	, Daniel, P. M. and Whitteridge, D. Nerve impulses in the brainstem of the goat. Short latency responses obtained by stretching the extrinsic eve muscles and the jaw muscles.	120, 471, 1953
99	Daniel, P. M. and Whitteridge, D. Nerve impulses in the brainstem of the goat. Responses with long latencies obtained by stretching the	120, 491, 1953
27	extrinsic eve muscles  Daniel, P. M. and Whitteridge, D. Nerve impulses in the brainstem and cortex of the goat. Spontaneous discharges and responses to visual and	120, 101, 1000
**	other afferent stimuli Muscle spindles in the intrinsic muscles of the	120, 514, 1953
	human tongue	122, 193, 1953
	Sensory endings in mammalian muscles (T)	126, 11 <i>P</i> , 1954
_	Afferent impulses in the hypoglossal nerve on	· -
**	stretching the cat's tongue	126, 32P, 1954
		140, 021, 1004
"	and Fillens Marianne Afferent discharges in	
	response to stretch from the extraocular muscles	
	of the cat and monkey and the unrervation of	
	these muscles	127, 400, 1955
	and Daniel P M Human muscle spindles	
• •	•	133, 1 <i>P</i> , 1956
COPELAND, K.	A direct-coupled oscilloscope preamplifier	117, 15 <i>P</i> , 1952
n	Cathode followers and interchangeable preamplifier units for use with oscilloscopes (T)	132, 32 <i>P</i> , 1956
CORMACK, R S	and Bannister, R G Two low resistance, low dead	, ,
	space respiratory valves	134 473 10=4
		124 4P, 1954
,	, Cunningham, D J C and O'Riordan, J L H	
,	A respiration apparatus (T), Cunningham D J C and Gee, J B L Some respiratory studies on the effect of want of	129, 3 <i>P</i> , 1955
	oxygen in man	
		129, 29 <i>P</i> , 1955
,,	Cunningham, D J C and Gee, J B L The effects of hypercapma and acapma on the respiratory response to acute want of oxygen m man	
CORNE S J		133, 47P, 1956
CORVE 9 J	The effect of inhibition of amine oxidase on the excretion of administered adrenaline and nor adrenaline in cats	
CORT, J H		133, 13 <i>P</i> , 1956
00.11, 9 11	The renal response to extrarenal depletion of the blood volume	11/ 00= 10=0
,	and McCance R A The relationship of shivering	; ;
	to respiration (T)	118, 62P, 1952
	The renal response to a head-down position (T)	
	and accounce R A The renal responses to andome	, ,
,	and McCance, R A The neural control of shivering	444
	m the pig	
•	The renal response to acidosis during dehydration	173 AP toro
	- An ingression	,, 1703
•	The inhibition of water durrece he	
	blood and extracellular fluid volume	124, 41P 1954
		, 111 1904

	0 <i>P</i> , 1954
,, and Keeler, R J Changes in intracellular electro	
lytes of rat muscle induced by electrolyte deficient diets and after hypothalamic lesions (T) 126, 29  and Kleinzeller, A The effect of denervation, pituitrin and varied cation concentration gra	9 <i>P</i> , 1954
dients on the transport of cations and water in kidney slices 133, 28	87, 1956
COTES, J E  The effect of a reduction of barometric pressure on the maximum voluntary ventilation in normal subjects (T)  119, 29	P, 1952
,, The open circuit oxygen equipment used by the	P, 1953
,, The effect of oxygen in reducing the ventilation in normal subjects when performing light exercise 125, 66	3 <i>P</i> , 1954
and body temperature in one normal subject performing steady state exercise breathing oxygen 126, 49  The role of body temperature in controlling venti	) <i>P</i> , 1954
lation during exercise in one normal subject breathing oxygen 129, 55	4, 1955
,, Bradley, S. E., Childs, A. W., Combes, B. ——, Wade, O. L. and Wheeler H. O. Effect of exercise on the splanchnic blood flow and splanchnic	P, 1955
COWAN, W M Cobb, W A, —, Powell, T P S and Wright, M K Some observations on the interaction between evoked strychnine spikes and specific responses	
in the visual cortex of the cat  (Cobb, W A ——, Powell, T P S and Wright M K  The relation between photically evoked specific responses and strychnine spikes in the visual	
cortex of the cat  Cobb, W A ——, Powell T P S and Wright, M K  Intracortical excitation following strychnine spikes  129, 306	
Cox, E V Marrow culture studies of maturing and inhibiting factors concerned in normoblastic and megalo blastic crythropoiesis 121, 1P	, 1953
Burstall, Pamela A, —, Robson J G Ross D C, Schofield, B and Ungley, C C The pre paration of pyloric gastric pouches in pigs as a source of Castle's intrinsic factor  121, 3P,	. 1953
, Latner, A L, McEvoy Bowe, E Raine, Laureen and Ungley, C C Studies on the separation of Castle 8 intrinsic factor (T) 121, 13 F	
, Ross, G I M and Ungley C C Absorption of vitamin B <sub>12</sub> in man and animals (T) 121, 22 F	

Coxov, R V	The Van Slyke method for counting radioactive carbon (T)	118, 51 <i>P</i> , 1952
"	Phosphatura after injection of parathyroid	124, 38 <i>P</i> , 1954
"	Banister P G, — and Kay, R H Continuous recording of oxygen concentration in gas mixtures and Kay, R H Continuous simultaneous recording of oxygen tension in inspired air by a new mag	126, 10 <i>P</i> , 1954
"	netic meter and in the subcutaneous tissue by polarographic electrode (T) and Robinson, R J Specific activity of carbon	129, 7 <i>P</i> , 1955
,,	dioxide in arterial and venous blood following in- jection of <sup>14</sup> C-labelled glucose and Kay, R H The optical properties of whole blood studied in glass cells by filter photometry as a basis for the interpretation of oxymetric	132, 48 <i>P</i> , 1956
G D G	data (T)	133, 6 <i>P</i> , 1956
CRAGG, B G	, Evans, D H L and Hamlyn, L H Chicken's optic tectum histological structure and Hamlyn, L H Chicken's optic tectum elec	120, 51 <i>P</i> , 1953
"	trical responses  The electrical responses of mammalian cerebral	120, 52P, 1953
,	cortex and Hamlyn, L H Action potentials of the	124, 254, 1954
	pyramidal neurones in the hippocampus of the rabbit	129, 608, 1955
CRAMPTON, R F	and Symth, D H Renal clearance of the stereo somers of alanme and methonne in the cat	<b>116,</b> 19 <i>P</i> , 1951
77	and Smyth, D H The excretion of the enantio morphs of amino acids	122, 1, 1953
Cranston, W I	, Gerbrandy, J and Snell E S The relationship between mouth, oesophageal and rectal tempera ture and the central mechanism regulating body temperature in man (T)	123, 39 <i>P</i> , 1953
"	, Pepper, Margot C and Ross, D N Blood reaction during hypothermia	125, 20 <i>P</i> , 1954
**	, Gerbrandy, J and Snell, E S Oral, rectal and oesophageal temperatures and some factors affecting them in man	
**	, Pepper, Margot C and Ross, D N Carbon di- oxide and control of respiration during hypo- thermia	126, 347, 1954
**	, Sanderson, P H and Stapleton T The effects of	127, 380, 1955
CRAWFORD, B H	and a reduction of seeing	129, 71P, 1955
"	curves (T)  and Pirenne, M H Steep frequency-of seeing curves	
Crawford, H	and Mollison P L Reversal of electrolyte charges	126, 404, 1954
CRAWFORD, T B	B Amin A H, — and Gaddum, J H The distribution of substance P and 5 hydroxyddae.	129, 639, 1955
Creese, R	in the central nervous system of the dog Apparatus for studying ion movements Effects of carbon dioxide on muscle	126, 596, 1954 119 5 <i>P</i> , 1952 119, 16 <i>P</i> , 1952

Creese, R	and Hashish, S Extracellular space of rat muscle, D'Silva, J L and Hashish, S Potassium in	
"	stimulated muscle and Roberts, $H$ $E$ Calcium and muscle sodium	122, 74 P, 1953 127, 32 P, 1954
"	, D'Silva, J L and Hashish, S E E Inulin space and fibre size of stimulated rat muscle	<b>127,</b> 525, 19 <sub>9</sub> 5
Crescitelli, F	and Dartnall, H J A A photosensitive pigment of the carp retina	<b>125</b> , 607, 1954
Crescitelli, R	and Dartnall, H J A Human 'visual purple' (T)	<b>120</b> , 62 <i>P</i> , 1953
Cross, B A.	The contractile response of mammary myoepi thelium to mechanical and hormonal stimuli (T) Emotional inhibition of the milk ejection reflex	122, 9 <i>P</i> , 1953 125, 43 <i>P</i> , 1954
,,	Two hypothalamic systems controlling uterine motility	133, 57 <i>P</i> , 1956
Cross, K W	and Opple, T E The respiratory rate and volume in the premature infant	<b>116,</b> 168, 1952
,,	and Oppe, T E The effect of inhalation of high and low concentrations of oxygen on the respiration of the premature infant	<b>117, 38,</b> 1952
"	and Malcolm, J. L. Evidence of carotid body and sinus activity in new born and foetal animals.	118, 10 <i>P</i> , 1952
"	, Hooper, J M D and Oppé, T E The effect of carbon dioxide on the respiration of the full term and premature infant , Hooper, J M D and Lord, Josephine M The	<b>119,</b> 11 <i>P</i> , 1952
	effect of carbon dioxide on the respiration of the hypoxic infant , Hooper, J M D and Oppé, T E The effect of	<b>122,</b> 29 P, 1953
-	inhalation of carbon dioxide in air on the respira- tion of the full term and premature infant , Hooper, J M D and Lord, Josephine M Anoxic	122, 264, 1953
"	depression of the medulla in the new born infant , $Tizard$ , $J$ $P$ $M$ and $Trythall$ , $D$ $A$ $H$ The	<b>125,</b> 628, 1954
	metabolism of new born infants breathing 15% oxygen	<b>129</b> , 69 <i>P</i> , 1955
Ceossland, J	and Merrick, A J The effect of anaesthesia on the acetylcholine content of brain	<b>125,</b> 56, 1954
"	and Matchell, J F The action of brain extracts, acetylcholine and histamine on the electrical activity of the cerebellum	<b>129</b> , 19 <i>P</i> , 1955
,,	and Matchell, J F The effect on the electrical activity of the cerebellum of a substance present in cerebellar extracts	<b>132</b> 391, 1956
CROTON, L M	and Crowden G P The measurement of the effect of mosquito nets on ventilation and thermal comfort	<b>127</b> , 45 <i>P</i> , 1955
"	Orowden, G P and Hickish, D E The use of solid CO <sub>2</sub> as a refrigerant in a climatic chamber of light construction (T)	127 53 <i>P</i> , 1955
"	and Crowden G P The effects of mosquito nets of cotton and synthetic fibres on ventilation thermal comfort and illumination	127 56P, 1955
CROWDEN, G P	A mobile laboratory equipped for studies on muscular work and environment (T)	123, 29 <i>P</i> , 1953
,	Croton, L M and The measurement of the effect of mosquito nets on ventilation and thermal comfort	127, 45 <i>P</i> , 1955

CROWDEN, G P	Croton, L M, —— and Hickish, D E The use of solid CO <sub>2</sub> as a refingerant in a climatic chamber of light construction (T)	127, 53 <i>P</i> , 1955
,,	Croton, L M and The effects of mosquito nets of cotton and synthetic fibres on ventilation, thermal comfort and illumination	127, 56 <i>P</i> , 1955
"	Simple measures used for the control of intense radiant heat and the reduction of thermal stress at work (T)  Brown, J. R. and The grading of muscular work.	127, 60 <i>P</i> , 1955 133, 19 <i>P</i> , 1955
	and Goodall Marcus Excitability, length tension	
Csapo, Arpad	relation and kinetics of uterine muscle contraction in relation to hormonal status  The relation of threshold to the K gradient in the	126, 384, 1954
**	myometrium	133, 145, 1956
,,	and Wilkie, D R The dynamics of the effect of potassium on frog s muscle	134, 497, 1956
CUENDET, A.	Benacerraf, B, Biozzi, G., —— and Halpern, B N Influence of portal blood flow and of partial hepat-	
	ectomy on the granulopectic activity of the reticulo-endothelial system	128, 1, 1955
Стилихе, Жаву С	and Morrison, S. D. A closed circuit respiration calorimeter for long period measurement of twenty four hour total metabolic exchanges in	
	the rat (T)	121, 35P, 1953
,	and Morrison S D Total energy expenditure during fasting and re-feeding of rats	127, 10 <i>P</i> , 1954
CENVINORAM D J	C Rapid and accurate preparation of respiratory gas	
	mixtures (T)	118, 51 P, 1952
1	Baxter, I G —— and Pearce, J W Comparison of cardiac output determinations in the cat by	
	direct Fick and flowmeter methods	118, 299, 1952
,	, Guttmann, L , Whitteridge, D and Wyndham, C H	110, 200, 1002
	Cardiovascular responses to bladder distension in	
	paraplegic patients	121, 581, 1953
"	Bannister, R. G — and Douglas, C. G. The part	
	played by changes in arterial p CO in the production of hyperphoea in heavy exercise	100 4000 1050
,	Bannister, R. G., — and Douglas, C. G. The carbon	122, 48P 1953
	dioxide stimulus to breathing in severe exercise	125, 90, 1954
,	Bannister R G and The effects on the respiration	· · · ·
	and performance during exercise of adding oxygen to the inspired air	
,	Cormacl, R S, — and O Riordan, J L H	125, 118, 1954
	A respiration apparatus (T)	129, 3P, 1955
•	Cormacl, R S, and Gee, J B L Some respira	•
	tors studies on the effect of want of oxygen in man and O Riordan J L H Respiratory effects of	129, 29P, 1955
	raising the body temperature in man	121 112 112
	, Johnson, W G H and Lloyd, B B A modified	131, 14 <i>P</i> , 1956
	Commack respiratory valva	100 00-
	Cormack R S —, and Gee, J B L The effects of hypercapnia and acapnia on the respiratory	
	response to acute want of oxygen in man	
Currie, J C M	) P711	133, 47 <i>P</i> , 1956
	and Ullmann Elizabeth Hyperphoea and renal water excretion	129, 73 <i>P</i> , 1955

± <b>-</b>	TOURIND OF THISTOHOUT	
DaCosta, Frances	Booker, W M, ——, Mitchell, S Q and Shelton, M Further studies on the effects of cortisone and its congeners on the intact and perfused heart	
Dainty, J	and Krnjevic, K The rate of exchange of Ma in cat nerves	1 <b>28,</b> 489, 1955
DALE, R A	and Sanderson, P H The mode of action of a mercurial diuretic in the human subject (T)	117, 39 <i>P</i> , 1952
DALGLIESH, C E	, Toh, C C and Work, T S Fractionation of the smooth muscle stimulants present in extracts of gastro intestinal tract Identification of 5 hydroxytryptamine and its distinction from substance P	?
DALLEMAGNE, M J	, Fabry, Claudine and Posner, A S The relation between bone salts and certain synthetic apatites	<b>126,</b> 18 <i>P</i> , 1954
DALY, I DE BURGH	Water metering device which simultaneously operates and measures the output of a blood pump	<b>125,</b> 1 <i>P</i> , 1954
,,	, Linzell, J. L., Mount, L. E. and Waites, G. M. H. Pulmonary vasomotor responses and acid base balance in perfused eviscerated dog preparations	<b>125</b> , 40 <i>P</i> , 1954
"	Pulmonary vascular responses in an innervated iso lated perfused left lung preparation	132, 42 <i>P</i> , 1956
DALY, M DE BURGH	and Schweitzer, A The contribution of the vaso sensory areas to the reflex control of broncho motor tone	116, 35, 1952
,,	Chungcharoen, D, —— and Schweitzer, A The blood supply of the carotid body	117, 11 <i>P</i> , 1952
**	, Lambertsen, C J and Schweitzer, A Observations on carotid body blood flow in the cat	117, 12 <i>P</i> , 1952
"	Chungcharoen, D, —— and Schweitzer, A The blood supply of the superior cervical and nodose ganglia (T)	117, 19 <i>P</i> , 1952
**	, Lambertsen, C J and Schweitzer, A The central control of bronchomotor tone (T)	117, 20 <i>P</i> , 1952
29	, Lambertsen, C J and Schwestzer, A Observations on the carotid body blood flow in the cat (T)	117, 20 <i>P</i> , 1952
"	and Evans, D H L Structural and functional changes in the vagus after degenerative section of the nerve at different levels (T), Lambertsen, C J and Schweitzer, A Broncho	117, 20 <i>P</i> , 1952
"	motor responses to altering the gaseous com- position of the blood perfusing the brain	117, 60 <i>P</i> , 1952
**	Chungcharoen, D, ——, Neil, E and Schweitzer, A The effect of carotid occlusion upon the intra sinusal pressure with special reference to vascular communications between the carotid and vertebral circulations in the dog, cat and rabbit	117, 56, 1952
,,	Chungcharoen, D, — and Schweitzer, A The blood supply of the carotid body in cats dogs and rabbits	117 347, 1952
"	Chungcharoen, D, — and Schweitzer, A The blood supply of the superior cervical sympathetic and the nodose ganglia in cats, dogs and	
	rabbits	118, 528, 1952

133, 4P, 1956

	<b></b>	
DALY M DE BURGH	Lambertsen, C J and Schweitzer, A The effects upon the bronchial musculature of altering the oxygen and carbon dioxide tensions of the	
,,	blood perfusing the brain and Evans. D. H. L. Functional and histological	119, 292, 1953
	changes in the vagus nerve of the cat after degenerative section at various levels, Lambertsen, C J and Schweitzer, A Observa	120 579 1953
***	tions on the volume of blood flow and oxygen utilization of the carotid body in the cat	125, 67, 1954
39	A method for electing baroreceptor reflexes from the isolated carotid sinus	128, 33P, 1955
"	and Schweitzer, A The effects of stimulation of the carotid sinus baroreceptors upon the pulmonary arterial blood pressure in the dog	131, 220, 1956
"	A method for continuous measurement of pulmo nary lobar blood flow in the dog (T)	132, 23 <i>P</i> , 1956
,	and Wright, P G The effects of anti-cholinesterases upon peripheral vascular resistance in the dog	133, 475, 1956
Dance, Pamela	and Pickford, Mary The effect of oestrus and of stilboestrol on the excretion of water, Na and K in the dog (T)	129, 82 <i>P</i> , 1955
Danesino, V	Chinard, F. P.,—, Huggett, A. St. G., Paul, W. M. and Reynolds, S. R. M. The passage of sugars across the monkey placenta	127, 8 <i>P</i> , 1954
"	Hartmann, W. L., Huggett, A. St. G. and Paul, W. The passage of sugars across the human placenta. (T)	132, 12 <i>P</i> , 1956
,	Chinard, F. P., —, Hartmann, W. L., Huggett, A. St. G., Paul, W. and Reynolds, S. R. M. The transmission of hexoses across the placenta in the human and the rhesus monkey (Macaca mulatta)	132, 289, 1956
DANIEL, P \I	and Prichard Marjoric M L Arterio venous anastomoses in the tongue of the dog, the sheep and the goat	110 300 3000
,	Cooper, Sybil, —— and Whitteridge, D Nerve in pulses in the brainstem of the goat Short latency responses obtained by stretching the	118, 18 <i>P</i> , 1952
,,	extransic eye muscles and the jaw muscles  Cooper, Sybil, —— and Whitteridge, D. Nerve im  pulses in the brainstem of the goat. Responses with long latencies obtained by stretching the	120, 471, 1953
,	extrinsic eve muscles  Cooper, Sybil —— and Whitteridge, D. Nerve im pulses in the brainstem and cortex of the goat	120, 491, 1953
	Spontaneous discharges and responses to visual and other afferent stimuli  Prichard, Marjorie M L and Ward McQuaid, J N An angiographic study of the effect of renin upon	120, 514, 1953
,,	and Whitteridge D Probable absence of a stretch	
"	reflex in extraocular muscles (T)  Cooper Sybil and Human muscle spindles and Prichard, Marjorie M L Necrosis in the anterior lobe of the pituitary produced by arrest- ing the blood flow in the hypophysial portal	
	vessels in the stalk	133, 4P, 1956

DARCUS, H D	A strain gauge dynamometer for the measurement of the strength of isometric contraction	<b>127</b> , 48 <i>P</i> , 1955
"	and Salter, Nancy The effect of repeated muscular exertion on muscle strength	<b>129</b> , 325, 1955
D'ARCY, P F	Buttle, G A H, —— and Howard, E M The effect of cortisone acetate in protecting adrenalecto mized and normal mice against cold stress	<b>123</b> , 5 <i>P</i> , 1953
DARLOW, G	Bowie, Jane Y, —— and Murray, Margaret M The effects of sodium fluoride on gastric secretion in cats (T)	119, 53 <i>P</i> , 1952
,,	Bowie, Jane Y, —— and Murray, Margaret M The effect of sodium fluoride on gastric acid secretion	122, 203, 1953
**	Reaction between histamine liberators and phos phates	<b>131,</b> 13 <i>P</i> , 1956
DARTNALL, H J A	Homogeneity tests for visual pigments (T)	116, 52P, 1952
"	Visual pigment 467, a photosensitive pigment pre sent in tench retinae	116, 257, 1952
**	A new visual pigment absorbing maximally at $510 \text{ m}\mu$	117, 57 <i>P</i> , 1952
,	Visual pigment 519 and its correlation with the spectral sensitivity of Xenopus laeus (T)	118, 43 <i>P</i> , 1952
11	Crescitelli, R and Human 'visual purple' (T)	120, 62P, 1953
"	Evidence for a visual pigment having modulator like properties	122, 12P, 1953
,,	A study of the visual pigments of the clawed toad	125, 25, 1954
"	Crescitelle, F and A photosensitive pigment of the carp retina	125, 607, 1954
,,	The composite nature of an apparently 'normal' difference spectrum	127, 9P, 1954
"	Visual pigments of the bleak (Alburnus lucidus)	<b>128, 131,</b> 1955
29	Further observations on the visual pigments of the clawed toad, Xenopus laevis	134, 327, 1956
DAVEY, D A	and Wohlzogen, F X Special sampling techniques as applied to the assay of chorionic gonadotrophin Measurement of changes of tension in the walls of	125, 51P, 1954
,,	perfused segments of blood vessels	132, 1 <i>P</i> , 1956
DAVIDSON, W M	Donald, $K$ $W$ and Oxygen uptake of divers and frogmen $(T)$	117, 38 <i>P</i> , 1952
DAVIES, BERYL M A	, Gordon, A H and Mussett Marjorie V A plasma calcium assay for parathyroid hormone, using parathyroidectomized rats , Gordon A H and Mussett Marjorie V A mouse	125, 383, 1954
	urine phosphate assay for parathyroid hormone, with certain applications	130, 79, 1955
DAVIES, F	, Davies R E Francis, E T B and Whittam, R The sodium and potassium content of cardiac and other tissues of the ox	118, 276, 1952
Davies, Joan R	Morgan RS, Wright EA and Wright G Payling The results of direct injections of botulinum toxin into the central nervous system of rabbits	<b>120</b> 618 1953
DAVIES, P W	, Erulkar, S D and Rose, J E Single unit activity in the auditor; cortex of the cat	126, 25 <i>P</i> , 1954
DAVIES R E	Daties, F, —, Francis E T B and Whittam, R The sodium and potassium content of cardiac and other tissues of the ox	118 276, 1952

Davson, H.	, Matchett, P A and Roberts, J R E Comparative studies of the distribution of chloride between	
	plasma and aqueous humour	116, 47P, 1952
"	and Purus, C E An apparatus for controlled injection over long periods of time  The penetration of large water soluble molecules	117, 18P, 1952
27	into the aqueous humour	122, 10P, 1953
71	<ul> <li>and Matchett, P A The kinetics of penetration of the blood aqueous barrier</li> <li>A kinetic study of the exchange between blood and</li> </ul>	122, 11, 1953
"	brain compared with exchange between blood and aqueous humour in rabbits	123, 54 <i>P</i> , 1954
**	and Puris, C Cryoscopic apparatus suitable for studies on aqueous humour and cerebro spinal fluid	124, 12 <i>P</i> , 1954
**	Nutrition of the lens by war of the aqueous humour	124, 42P, 1954
11	Hydration of the cornea	125, 15P, 1954
	The rates of disappearance of substances injected	
**	into the sub arachnoid space of rabbits	128, 52P, 1955
**	A comparative study of the aqueous humour and cerebrospinal fluid in the rabbit	<b>129,</b> 111, 1955
"	and Luck, C P The distribution of bicarbonate	
	between aqueous humour, cerebrospinal fluid and plasma in several mammalian species	130, 48P, 1955
"	and Luck, C P A comparative study of the total carbon dioxide in the ocular fluids, cerebro	, ,
	spinal fluid, and plasma of some mammalian	<b>400</b>
	apecies .	132, 454, 1956
Dawes, G S	, Mott, J C and Widdicombe, J G Carotid and aortic body stimulants in the dog	117, 34 <i>P</i> , 1952
**	, Mott, J C and Vane, J R A flowmeter (T)	118, 24P, 1952
11	, Mott J C, Widdicombe, J G and Wyatt, D G  The effect of ventilation on pulmonary blood	•
	flow in the new born lamb  Ardran, G. M., —, Prichard, M. M. L., Reynolds,	118, 45P, 1952
***	S R M and Wyatt D G The effect of venti- lation of the foetal lungs upon the pulmonary	
	circulation	118, 12, 1952
"	Mott Joan C and Vane, J R The density flow meter, a direct method for the measurement of	•
•	the rate of blood flow, Mott, Joan C, Widdicombe, J G and Wyatt, D G	121, 72, 1953
"	Changes in the lungs of the new born lamb, Milne, Eleanor D F, Mott Joan C and Widdleombe, J G The patency of the ductus arteriosus	121, 141, 1953
	after birth , Milne Eleanor D. F. Mott. Joan C. and Wedd.	122 37P, 1953
	combe J G The closure of the foramen ovale after birth	133 00
	and Mott, Joan C The murmur from the patent ductus arteriosus in the newborn lamb (T)	
11	, Mott, Joan C and Widdisombe J G The organi	126, 11 <i>P</i> , 1954
	lation of blood in the foetal lamb, Mott, Joan C and Widdicombe J G The foetal	126, 38P, 1954
**	Born G V R, —and Mott Joan C. The web-late	
	of premature lambs (T)	127, 9 <i>P</i> , 1954

DAWES, G S	Born, G V R, —, Mott, Joan C and Rennick, Barbara R The relief of central cyanosis due to venous admixture by reconstitution of the	•
	ductus arteriosus , Mott, Joan C and Widdicombe, J G The cardiac	127, 53P, 1955
"	murmur from the patent ductus arteriosus in newborn lambs	<b>128, 844,</b> 1955
**	, Mott, Joan C and Widdicombe, J G The patency of the ductus arteriosus in newborn lambs and	
,,	its physiological consequences, Mott, Joan C and Widdicombe, J G Closure of	
"	the foramen ovale in newborn lambs  Born, G V R, —, Mott, Joan C and Rennick,	128, 384, 1955
	Barbara $R$ The mechanism of constriction of the ductus arteriosus in the newborn lamb	<b>129,</b> 28 <i>P</i> , 1955
**	Amoroso, E C, — Mott, Joan C and Rennick, Barbara R Occlusion of the ductus venosus in	
"	the mature foetal lamb  Born, G V R, ——, Mott, Joan C and Rennick,	129, 64P, 1955
	Barbara R The relief of central cyanosis caused by pulmonary arterio venous shunts by con	
,,	struction of an artificial ductus arteriosus, Born, G V R, — and Mott, Joan C The vi	<b>130,</b> 167, 1955
	ability of premature lambs  Born, G V R, —, Mott, Joan C and Rennick,	<b>130,</b> 191, 1955
,	Barbara R The constriction of the ductus arteriosus caused by oxygen and by asphyxia in	
1)	newborn lambs and Vane, J R The refractory period of atria iso	132, 304, 1956
	lated from mammalian hearts  Acheson, G. H., —— and Mott, Joan C. Relation of	132, 611, 1956
,,	the O <sub>2</sub> consumption of foetal and newborn lambs to the arterial O <sub>2</sub> saturation	133, 11 <i>P</i> , 1956
<b>37</b>	, Mott, Joan C and Rennick, Barbara R Some effects of adrenaline, noradrenaline and acetyl	
,	choline on the foetal circulation in the lamb  Born, G V R, —— and Mott, Joan C Oxygen lack and autonomic nervous control of the foetal	134, 139, 1956
	circulation in the lamb	<b>134</b> , 149, 1956
Dawson, G D	and Elithorn, A A two channel chronograph The relative excitability and conduction velocity of	<b>123</b> , 16 <i>P</i> , 1953
**	sensory and motor nerve fibres in man	131, 436, 1956
Danson, K B	Calcium exchange in bone (T)	130, 40P, 1955
Day, Margaret	The release of substances like acetylcholine and adrenaline by the isolated rabbit heart	134, 558, 1956
DAY, T D	The permeability of interstitial connective tissue and the nature of the interfibrillary substance	117, 1, 1952
de Bersaques, J	and Leusen, I Acid base equilibrium between blood and cerebrospinal fluid	126, 14 <i>P</i> , 1954
DEL CASTILLO, J	and Stark, L The effect of calcium ions on the motor end plate potentials	116, 507, 1952
,,	and Stark, L Local responses in single medullated nerve fibres	118, 207, 1952
22	and Katz, B Statistical aspects of transmission at a single nerve muscle junction	120, 32P, 1953

	IIIDDA OI ROLLOLIO	
DEL CASTILLO, J	and Engback, Lase The nature of the neuro muscular block produced by magnesium and Machne, Xenia Effect of temperature on the	120, 54 <i>P</i> , 1953
**	passive electrical properties of the muscle fibre membrane	120, 431 1953
"	, Hoyle, G and Machne, Xenia Neuromuscular transmission in a locust	121, 539, 1953
**	and Vizoso, A D The electrical activity of embryomic nerves	122, 33P, 1953
,,	and Katz, B The failure of local-circuit trans mission at the nerve muscle junction	123, 7P, 1953
**	and Katz, B Facilitation at the nerve-muscle junc- tion due to anodic polarization of nerve endings	123, 8 <i>P</i> , 1953
29	and Katz, B Potential and resistance changes at the motor end plate	123, 70 <i>P</i> , 1954
"	and Katz, B Electrotonic changes in the random activity of motor nerve endings (T)	124, 2P, 1954
,,	and Englack, Lase The nature of the neuro muscular block produced by magnesium	124, 370, 1954
•	and Katz, B The effect of magnesium on the activity of motor nerve endings	124, 553, 1954
,,	and Katz, B Quantal components of the end plate potential	124, 560, 1954
**	and Katz, B Statistical factors involved in neuro muscular facilitation and depression	124, 574, 1954
<del>11</del>	and Katz, B Changes in end plate activity produced by pre synaptic polarization	124, 586 1954
***	and Katz, B Electrophoretic application of acetyl choline to the two sides of the end plate membrane	125, 16P, 1954
"	and Katz, B The membrane change produced by the neuromuscular transmitter	125, 546, 1954
,	and Katz, B Action, and spontaneous release, of acetylcholme at an 'inexcitable' nerve-muscle	
,	junction  and Katz, B Ionophoretic application of scetyl	126, 27P, 1954
,	cholme to motor end plates (T) and $Katz$ , $B$ On the localization of acetylcholme	128, 31 P, 1955
7	receptors and Kat: B Local activity at a depolarized nerve	128 157, 1955
•	muscle junction  and Katz, B Effects of vagal and sympathetic nerve impulses on the membrane potential of the	128, 396, 1955
	frog s heart and Katz B Electrophoretic application of tube	129, 48P, 1955
,	curarine to single end plates (T) and Katz, B Localization of active spots within	131, 32P, 1956
DET CRECO E	the neuromuscular junction of the frog	132, 630, 1956
DEL GRECO, F	and de Wardener H E The effect of sudden changes in solute output on the osmolarity of the urine and de Wardener, H E The effect on urine osmo	129, 69 <i>P</i> , 1955
	larity of a transient reduction in glomerular filtration rate and solute output during a 'water' diuresis	<b>48.</b>
de Molina, A Fernandez	and Gray J A B Methods for investigating spinel	131, 307, 1956
,	cord activity (T) and Gray, J A B Spinal cord potentials due to stimulation of cutaneous nerves	132, 25P, 1956
	semination of chismeons nerves	134, 9P, 1956

DEMPSTER, W J	A technique for the study of the behaviour of the autotransplanted kidney, adrenal and ovary of the dog	
"	and Joekes, A. M. Emotional antidiuresis in the autotransplanted kidney	
"	, Eggleton, M Grace and Shuster, S The effect of hypertonic infusions on glomerular filtration rate and glucose reabsorption in the kidney of the	•
	dog	<b>132</b> , 213, 1956
DENTON, D A	Coats, D A, —, Goding, J R and Wright, R D Secretomotor mechanism of the sheep's parotid gland (T)	<b>129,</b> 7 <i>P</i> , 1955
,,	Coats, D A, —, Goding, J R and Wright, R D Secretion by the parotid gland of the sheep	131, 13, 1956
1)	The effect of Na+ depletion on the Na+ K+ ratio of	
"	the parotid saliva of the sheep and McDonald, I R The effect of a rapid change of Na+ balance on the Na+/K+ ratio of the parotid	131, 516, 1956
	salıva of Na+ depleted sheep	133, 37 <i>P</i> , 1956
DENTON, E J	and Pirenne, M H Spatial summation at the absolute threshold of peripheral vision and Pirenne, M H Green coloured rods and	116, 32P, 1951
"	retinal sensitivity	116, 33P, 1951
"	and Pirenne M H On the functional stability of the retina	117, 55P, 1952
,,	and Wyllie, $J$ $H$ The density of visual purple in the rods of the dark adapted frog $(T)$	122, 35P, 1953
"	Some observations upon the green coloured rods of the frog (T)	122, 35P, 1953
**	and Pirenne, M H The absolute sensitivity and functional stability of the human eye	123, 417, 1954
,,	A method of easily observing the dichroism of the visual rods	<b>124</b> , 16 <i>P</i> , 1954
,,	On the orientation of molecules in the visual rods of Salamandra maculosa	124, 17 <i>P</i> , 1954
,,	and Pirenne M H The visual sensitivity of the toad Xenopus laevis	<b>125</b> , 181, 1954
,,	and Wyllie, J. H. Study of the photosensitive pigments in the pink and green rods of the frog	127, 81, 1955
,,	On the bleaching of the photosensitive substance in the retinal rods of Xenopus lacus	131, 6 <i>P</i> , 1956
	On the vision of the conger eel	133, 56P, 1956
" Dogge D	Perry, W L M and Modifications of the Cossor	, ,
de Rossi, P	camera to permit the taking and numbering of single frames	128, 2 <i>P</i> , 1955
DESMEDT, J E	Electrical activity and intracellular sodium concentration in frog muscle	<b>121</b> 191, 1953
,,	and La Grutta, G Control of brain potentials by pseudo cholinesterase	129, 46P, 1955
DE VRIES, H	Jielof, Renske, Spoor, A and The microphonic activity of the lateral line	116, 137 1952
Dewar, H A	and Owen S G Automatic syringe withdrawal device for constant rate arterial and cerebral venous blood sampling during the determination of cerebral blood flow by the nitrous oxide method (T)	121 13 <i>P</i> , 1953

DE WARDENER, H E	Miles, B E and Intrarenal pressure  Miles, B E, Ventom, M and Observations on the	118, 140, 1952 123, 131, 1954
,,	mechanism of circulatory autoregulation in the perfused dog's kidney	123, 143, 1954
,,	del Greco, F and The effect of sudden changes in solute output on the osmolarity of the urine del Greco, F and The effect on urine osmolarity	129, 69P, 1955
"	of a transient reduction in glomerular filtra tion rate and solute output during a 'water' diuresis	131, 307, 1956
Dews, P B	Code, C F, — and Higgins, G M The relation ship of the adrenal gland to concentration of histamine and number of leucocytes in the blood of rabbits	121, 487, 1953
**	Acquisition of discriminatory behaviour of pigeons	133, 43 <i>P</i> , 1956
DEXTER, D	and Stoner, $H$ $B$ The role of the adrenal medulla in water diuresis in rats	118, 486, 1952
DIAMOND, J	The effects of acetylcholine on the pressor receptors of the cat carotid sinus Pressure receptor activity in the isolated perfused	122, 28 <i>P</i> , 1953
"	carotid sinus (T)	124, 9P, 1954
"	and Howe A A study of certain aortic bodies in the cat	128, 76 <i>P</i> , 1955
"	Observations on the excitation by acetylcholine and by pressure of sensory receptors in the cat's carotid sinus	130, 513, 1955
"	, Featherstone, R, Gray, J A B and Inman, D R The perfusion of a Pacinian corpuscie	132, 27 <i>P</i> , 1956
"	, Gray, J A B and Sato, M The site of initiation of	
"	impulses in Pacinian corpuscles and Howe, A Chemoreceptor activity in the aortic	133, 54, 1956
D D 4 M	bodies of the cat	134, 319, 1956
Dick, D A T	Barer, R and Mass concentration and thickness of living cells in tissue culture	129, 25P, 1955
DICKER, S E	The maintenance of a constant water load and the recording of urine flow in the unanaesthetized	
,	rat (T) and Tyler, Christine Antidiuretic titre of plasma	117, 22P, 1952
	from the internal jugular vein of children	117, 28P, 1952
,	Effect of diuretics in new born rats and pupples and Tyler, Christine The oxytocic and pressor	118 384 1050
,	factors of the pituitary gland of dogs, cats, rats	
71	and human foetuses Rate of secretion of antidiuretic hormone in the	110 717
•	rat (T) and Tyler, Christine Estimation of the anti	120, 59 <i>P</i> , 1953
·	diuretic, vasopressor and oxytocic hormones in the pituitary gland of dogs and puppies	
,	and Tyler, Christine Vasopressor and oxytocic activities of the pituitary glands of rate grupos	120, 141, 1953
,,	pigs and cats and of human foetuses Urinary excretion of antidiuretic hormone during dehydration in rats	121, 206, 1953
	denydiation in this	122, 57P 1953

DIOKER, S E	Boura, A and An apparatus for the maintenance of a constant water load and the recording of urine	
"	flow in rate  A method for the assay of very small amounts of antidiuretic activity with a note on the anti-	122, 144, 1953
,,	diuretic titre of rats' blood and Greenbaum, A L The degree of inactivation	
	of vasopressin by the kidney and the liver of rate	<b>124,</b> 35 <i>P</i> , 1954
,,	and Nunn, Joan Some factors influencing the amount of vasopressor and oxytocic activities of the posterior pituitary gland of normal and advantagement of the (T)	
,,	adrenalectomized rats (T)  The fate of the antidiuretic activity of Pitressin in rats	124, 464, 1954
"	and Greenbaum, A L The degree of mactivation of the antiduretic activity of vasopressin by the	,
"	kidneys and the liver of rats  and Greenbaum, A. L. Preliminary study of the mechanism of inactivation of vasopressin by	<b>126,</b> 116, 1954
,,	kidney homogenates  Reappraisal of the role of vasopressin during de	<b>127,</b> 39 <i>P</i> , 1954
"	hydration in rats (T) and Greenbaum A L Inactivation of the anti	<b>128</b> , 59 <i>P</i> , 1955
	diuretic activity of vasopressin by tissue homogenates	132, 199, 1956
Dickinson, Ceoilia D	and Scott, Patricia P The effects of penicillin on the weight gained by kittens	122, 61 <i>P</i> , 1953
"	and Scott, Patricia P Sex variations in the growth response of kittens to dietary penicillin G (T) and Scott, Patricia P Preliminary observations on	127, 42P, 1954
,	the protein requirements of kittens receiving a mixed diet	129, 78 <i>P</i> , 1955
Dтососк, K A	, Picard, C W and Robson, J M The action of podophyllotoxin on pregnancy	117, 65P, 1952
DIECKE, F P J	Bullock, $T$ $H$ and Properties of an infra red receptor	<b>134, 47,</b> 1956
D'Iorio, A.	Blaschko, H, Born, G V R, —— and Eade, N R Sedimentation of adrenal medullary granules in	132, 44 <i>P</i> , 1956
"	hypertonic sucrose and Eade, N R Catechol amines and adenosine triphosphate (ATP) in the suprarenal gland of	132, 441, 1000
"	the rabbit  Blaschko, H, Born, G, V, R, —— and Eade, N, R	133, 17 <i>P</i> , 1956
	Observations on the distribution of catechol amines and adenosinetriphosphate in the bovine adrenal medulla	133, 548, 1956
DITCHBURN, R W	and Ginsborg, B L Involuntary eye movements during fixation	119, 1, 1953
DIVE, C	, Hawes, L A and Pryn, J Methods of artificial respiration (Holger, Nielsen, Schafer, and Eve methods) (T)	119, 31 <i>P</i> , 1952
Dixov, A D	and Torr, J B D Sex differences in cell morpho logy (T)	132, 70 <i>P</i> , 1956
Dixon, K C	Glycolysis and cytochemistry of cerebral cortex	120, 267, 1953

	<del></del> ·	
Dobrowolski, J A	, Johnson, B K and Tansley, Katharine The spectral absorption of the photopigment of Xenopus lacus measured in single rods	130, 533, 1955
Довзом, А	and Phillipson, A T The forces moving chloride	125, 26 <i>P</i> , 1954
**	The forces moving sodium ions through rumen epithelium	128, 39 <i>P</i> , 1955
"	and Philipson, A T The influence of the contents of the rumen and of adrenaline upon its blood supply	133, 76 <i>P</i> , 1956
Dobson, Marjorie J	A histological study of the structure and organization of the rumen epithelium of sheep	128, 25 <i>P</i> , 1955
Dodd, J M	Studies on amphibian metamorphosis using 1211	130, 11 <i>P</i> , 1955
Dodt, E	Centrifugal spikes in the rabbit's retina	129, 12P, 1955
Dolivo, M	, Horowicz, P., Larrabee, M. G. and Steknel, W. Metabolic substrates in mammalian sympathetic ganglia.	133, 52 <i>P</i> , 1956
Donald, I	and Young, I Maureen An automatic respiratory amplifier	116, 41 <i>P</i> , 1952
Donald, K W	and Davidson, W M Oxygen uptake of divers and frogmen (T)	<b>117,</b> 38 <i>P</i> , 1952
"	Bushop, J M, —— and Wade, O L Cardiac output during exercise and recovery (T)	123, 2P, 1953
19	Bishop, J M, — and Wade, O L Mmute to minute changes in cardiac output by the direct Fick method in normal subjects during exercise	
,,	and recovery  Bishop, J. M., ——, Taylor, S. H. and Wormald,  P. N. Effect of supine leg exercise on the splanchnic A-V oxygen difference in normal	123, 12 <i>P</i> , 1953
"	subjects  Bishop, J. M., ——, Taylor, S. H. and Wormald, P. N. Blood flow changes in the resting arm	133, 9 <i>P</i> , 1956
DONATORON P.E.	during supine leg exercise in normal subjects  K Large screen oscilloscope for demonstration to	133, 60 <i>P</i> , 1956
,,	students (T) and Matthews, B H C A vectorgraph for extra	125, 14P, 1954
	cellular currents in grey matter	129, 35P, 1955
23	A tape recorder for slow potential changes (T)	<b>129</b> , 39 <i>P</i> , 1955
1)	A miniature battery driven oscilloscope (T) and Matthews, B H C Action currents within the central nervous system	
,,	A multiple trace cathode ray oscillograph using a single gun tube (T)	133 25 D 1050
))	A miniature booster amplifier for the second channel of the Cossor 1049 oscilloscope (T)	133, 35 P 1958
DONEGAN, J F	The relation of Na and Ca ions to the electrical and mechanical properties of cardiac muscle of frog (T)	•
Donner, K O	The spectral sensitivity of the pigeon's retinal elements	
,,	and Rushton, W A H The Stiles Crawford effect in the frog s retina	
Donoran, B T	and Harris, G W Hypothalamic injections and ovulation in the rabbit	
		128, 13P, 1955

Donovan, B T	and Harris G W The effect of pituitary stalk section on light-induced cestrus in the ferret and van der Werff ten Bosch, J J Cervical sym	<b>131,</b> 102, 1956
,,	pathetic system and light induced cestrus in ferrets (T)  and van der Werff ten Bosch, J J The cervical sym	<b>131</b> , 13 <i>P</i> , 1956
,	pathetic system and light induced oestrus in the ferret	<b>132,</b> 123, 1956
**	and Harris, G W Adrenergic agents and the	
,,	release of gonadotrophic hormone in the rabbit and van der Werff ten Bosch, J. J. Oestrus in winter following hypothalamic lesions in the ferret	132, 577, 1956 132, 57 <i>P</i> , 1956
DORCHESTER, J E C	and Haust, R E A method of secretin assay	118, 182, 1952
"	and Haist, R E The secretin content of the in testine in normal and hypophysectomized rats	118, 188, 1952
,,	and Haist, R E The effect of anterior pituitary extracts, desiccated thyroid, growth hormone preparations and ACTH on the extractable secretin of the intestines of hypophysectomized and intact rats	119, 266, 1953
DORMER, A E	Bates, $D\ V$ , Boucot, Nancy $G$ and The pulmonary diffusing capacity in normal subjects	<b>129,</b> 237 1955
DORNHORST, A C	, Howard, $P$ and Leathart $G$ $L$ Respiratory variations in human blood pressure $(T)$	116, 3 <i>P</i> , 1951
"	Barcroft H, —, McClatchey, H M and Tanner, J M On the action of the sympathetic on the blood vessels in human muscle during rhythmic exercise (T)	116, 10 <i>P</i> , 1951
"	Barcroft, H, ——, McClatchey, H M and Tanner, J M On the blood flow through rhythmically contracting muscle before and during release of sympathetic vasoconstrictor tone	<b>117,</b> 391, 1952
,,	and Young, I Maureen The effect of adrenalme	
"	and noradrenaline on the foetal circulation (T) and Young, I Maureen The action of adrenaline	118, 34 <i>P</i> , 1952
<b>33</b>	and noradrenaline on the placental and foetal circulations in the rabbit and guinea pig and Whelan, R F Estimation of the effects of changes of respiration in the human subject by	118, 282, 1952
	reproduction of the respiratory pattern	119, 9P, 1952
**	and Young, I Maureen Recording of rapid fluctuations of CO <sub>2</sub> in respiratory gases  Buller A J and Sound transmission of the	119, 33P, 1952
**	normal chest (T)  Buller A J and Method of investigating the ankle	127, 5P, 1954
"	jerk in man (T)  Buller, A J and Autogenetic inhibitory impulses	127, 5P, 1954
,,	from human muscle	<b>128</b> 20 <i>P</i> , 1955
,,	and Lee G de J A device for solving the alveolar capillary diffusion equation (T)	133, 27 P, 1956
Dотт, H M	and Walton, A Apparatus for studying semen metabolism and sperm motility under constant fluid perfusion and known gaseous partial pressures	122, 1 <i>P</i> 1953
"	and Walton A The measurement of sperm motility in relation to metabolism	133, 30 <i>P</i> , 1956

DOUGHERTY, R W	Cine fluorographic studies of eructation in sheep (Film) (T)	<b>129</b> , 40 <i>P</i> , 1955
Douglas, A. S	Biggs, Rosemary, —— and Macfarlane, R G The formation of thromboplastin in human blood	119, 89, 1953
n	Biggs, Rosemary, — and Macfarlane, R G The	122, 538, 1953
**	Biggs, Rosemary, —— and Macfarlane, R G The action of thromboplastic substances	122, 554, 1953
Douglas, C G	Bannister, R. G., Cunningham, D. J. C. and The part played by changes in arterial p.CO <sub>2</sub> in the production of hyperphoea in heavy exercise Bannister, R. G., Cunningham, D. J. C. and The	122, 48 <i>P</i> , 1953
1)	carbon dioxide stimulus to breathing in severe exercise	125, 90, 1954
Douglas, W W	and Matthews, P B C Acute tetraethylpyrophos- phate poisoning in cats and its modification by atropine or hyoscine	<b>116,</b> 202, 1952
"	and Paton, W D M The hypothermic action of ACTH (T)	117, 2P, 1952
"	and Toh, C C The effect of 5 hydroxytryptamine (serotonin) on respiration in the dog	117, 71 P, 1952
**	The effect of a ganglion blocking drug, hexa methonium, on the response of the cat's carotid body to various stimuli	118, 373, 1952
***	and Gray, J A B The excitant action of acetyl choline and other substances on cutaneous sensory pathways and its prevention by hexa	
n	methonium and $D$ tubocurarine and $D$ oh, $C$ $C$ The respiratory stimulant action of	119, 118, 1953
"	5 hydroxytryptamine (serotonin) in the dog and Malcolm, J. L. The selective depressive action	120, 311, 1953
"	of temperature on somatic sensory nerves (T) and Paton, W D M The mechanisms of motor end plate depolarization due to a cholinesterase	123, 66 <i>P</i> , 1954
"	mhibiting drug  The role of local sympathetic innervation in pyrogen induced vasoconstriction occurring in	124, 325, 1954
"	the rabbit ear and Schaumann, W Pressor and depressor effects on electrical stimulation of the aortic nerve in cats with stimuli of different intensities and	126, 319, 1954
	frequencies and Malcolm, J L The effect of localized cooling	128, 10 <i>P</i> , 1955
,	on conduction in cat nerves , Ritchie, J. M. and Schaumann, W. Depressor	130, 53, 1955
	responses from stimulation of fast and slow conducting fibres in the rabbit acrtic nerve and Ritchie, J. M. Non medullated afferents in the	130, 12 <i>P</i> , 1955
	buffer nerves  , Ritchie, J. M. and Schaumann W. Pulsatile and non pulsatile electrical stimulation of the rabbit's	131, 35 <i>P</i> , 1956
	and Schaumann, W A study of the depressor and pressor components of the cat a camtid gives and	131, 36 <i>P</i> , 1956
	aortic ners es using electrical stimuli of different intensities and frequencies	132, 173, 1956

13

Douglas, W W	, Ritchie, J. M. and Schaumann, W. Depressor reflexes from medullated and non medullated	100 107 1070
,,	fibres in the rabbit's acrtic nerve and Ritchie, J M The conduction of impulses through the superior cervical and accessory	132, 187, 1956
,,	cervical gangha of the rabbit, Ritchie, J. M. and Schaumann, W. A study of the effect of the pattern of electrical stimulation of	<b>133</b> , 220, 1956
,,	the aortic nerve on the reflex depressor responses and Ritchie, J M Cardiovascular reflexes produced by electrical excitation of non medullated afferents in the vagus, carotid sinus and aortic nerves	133, 232, 1956 134, 167, 1956
Downing, A C	Caldwell, P C and The preparation of capillary microelectrodes	<b>128</b> , 31 <i>P</i> , 1955
Downman, C B B	and Hamds, E. A. Cerebral cortical potentials and afferent volley components on splanchnic nerve stimulation (T)	116, 3 <i>P</i> , 1951
,,	Distribution along the small intestine of afferent, vasoconstrictor and inhibitory fibres in the mesentene nerve bundles	116, 228, 1952
,,,	Comparison of visceromotor reflexes in decerebrated and acute spinal cats	117, 9P, 1952
"	and Woolsey, C N Inter relations within the auditory cortex	123, 43 <i>P</i> , 1953
Dowse, C M	and Saunders, J A An apparatus for the determination of interfacial tension, Saunders, J A and Schofield, B The composition	121, 10 <i>P</i> , 1953
); );	of lipid material from the jejunum of fasting dogs , Saunders, J. A. and Schofield, B. The composition of lipid from jejunal contents of the dog after a	<b>128,</b> 73 <i>P</i> , 1955
	fatty meal	134, 515, 1956
Dowser, E E	and Friend, J A leak proof circulating fan	123, 15P, 1953
Doxiadis, S A	and Goldfinch, Margaret K Comparison of creatinine and inulin clearances in young children and Goldfinch, Margaret K Comparison of inulin	116, 50 <i>P</i> , 1952
"	'endogenous creatinine clearances in young children	118, 454, 1952
DRAPER, J	, Reid, A M and Renbourn, E T Physiological data derived from a trial of a water impermeable water vapour permeable garment	<b>127</b> , 58 <i>P</i> , 1955
DRAPER, M H	Some correlations between the structure and electro physiology of false tendons as observed in the hearts of dogs and goats	126, 30 <i>P</i> , 1954
***	and Mya Tu, M Comparative studies of the resting and action potentials in mammalian cardiac tissues	130, 29 <i>P</i> , 1955
DREYER, B	Baker, J B E and Cardiac arrest by potassium citrate	131, 25 <i>P</i> , 1956
Dry, R M L	Armstrong, Destrée, —, Keele, C A and Markham, J W Pain producing substances in blister fluid and in serum	117, 4 <i>P</i> , 1952
"	Armstrong, Desirée, —, Keele, C A and Markham, J W Pain producing actions of tryptamine and 5 hydroxytryptamine	117 70 <i>P</i> , 1952

Dry, R M. L	Armstrong, Desirée, —, Keele, C A and Marl ham, J W Observations on chemical excitants of cutaneous pain in man	<b>120,</b> 326, 1953
D SILVA, J L	Creese, R, —— and Hashish, S Potassium in stimulated muscle	122, 74 <i>P</i> , 1953
,,	and Neil, M W The potassium, water and glycogen	124, 515, 1954
,,	Creese, R, —— and Hashish, S E E Inulin space and fibre size of stimulated rat muscle	127, 525, 1955
Dua, S	Anand, B K, — and Shoenberg, Kate Hypo thalamic control of food intake in cats and monkeys	127, 143, 1955
1)	Anand, B K and Hypothalamic involvement in the pituitary adreno-cortical response	127, 153, 1955
DUCKWORTH, J	and Hill, R The effect of the level of dietary calcium during pregnancy and lactation on the sheleton of the ewe	123, 69 <i>P</i> , 1954
Duff, F	Clarle R S J, — and Thompson, I D Direct recording of arterial blood pressure in man, Greenfield, A D M and Thompson, I D The	118, 55P, 1952
,	response to acetylcholine and histamine of the blood vessels of the human hand and forearm (T), Greenfield, A. D. M., Shepherd, J. T. and Thompson,	118, 69 <i>P</i> , 1952
"	I D A quantitative study of the response to acetylcholine and histamine of the blood vessels of the human hand and forearm, Greenfield, A D M, Shepherd, J T, Thompson, I D and Whelan, R F The response to vaso	120, 160, 1953
,,	dilator substances of the blood vessels in fingers immersed in cold water and Shepherd, J. T. The circulation in the chronic	121, 46, 1953
	ally denorvated forearm, Greenfield, A. D. M. and Whelan R. F. Vaso	122, 25P, 1953
•	dilatation following arterial gas embolism and Whelan, $R$ $F$ Antihistamines as a tool in the	122, 26 <i>P</i> , 1953
	investigation of vasodilator phenomena in man Shepherd, W H T and Whelan, R F The effect of adrenaline infusions into the carotid and	123, 75P, 1954
,	vertebral arteries on the respiration in man, Patterson, G C and Shepherd, J T A quantita tive study of the response to adenosine triphos phate of the blood vessels of the human hand and	125, 62P, 1954
Derm Janeary I	forearm	125, 581, 1954
DUIT, JANET I	Barnes J M and The action of 2 4-dimitrophenol (DNP) on mammalian striated muscle  Barnes J M, —— and Threlfall, C J The behaviour of mammalian striated muscle in the	124, 37P, 1954
Deff, R S	presence of 2.4 duntrophenol  The effect of sympathetic denervation on the sensi	130, 585, 1955
•	Effect of sympathectomy on the response to	, , , , , , , , , , , , , , , , , , , ,
•	Effect of adrenaline and noradrenaline on blood vessels of the hand before and after sympath	117, 415, 1952
	ectomv	129, 53, 1955

Dugum, J B	, Hulse, E V, Richardson, M W and Young, A E A method of calculating the respiratory surface area of the lung	121, 8 <i>P</i> , 1953
Duke, Helen N	and Killick, Esther M Pulmonary perfusion of isolated cat lungs (T)	116, 46P, 1952
,,	, Green, J H and Neil, E Carotid chemoceptor activity during inhalation of carbon monoxide	117, 63P, 1952
,,	and Killick, Esther M Pulmonary vasoconstriction to anoxia its site of action	<b>117</b> , 78 <i>P</i> , 1952
,,	and Killick, Esther M Pulmonary vasomotor responses of isolated perfused cat lungs to anoxia	<b>117, 303,</b> 1952
**	, Green, J H and Netl, E Carotid chemoceptor impulse activity during inhalation of carbon	
,,	monoxide mixtures  Carlill, S D and Effects of variations in left auricular pressure on pulmonary arterial pres	<b>118,</b> 520, 1952
,,	sure The site of action of anoxia on the pulmonary blood	<b>123</b> , 44 <i>P</i> , 1953
"	vessels of the cat  Carlill, S D and Pulmonary vasomotor responses	<b>125</b> , 373, 1954
	to changes of left auricular pressure	<b>131,</b> 12 <i>P</i> , 1956
,,	Carlill, S D and Pulmonary vascular changes in response to variations in left auricular pressure	133, 275, 1956
Dun, F T	The delay and blockage of sensory impulses in the dorsal root ganglion	<b>127</b> , 252, 1955
,,	The attenuation of electrotonic potential in the motor terminal arborization	133, 42 <i>P</i> , 1956
DUNCAN, DOROTHY L	The effects of vagotomy and splanchnotomy on gastric motility in the sheep	119, 157, 1953
,,	Responses of the gastric musculature of the sheep to some humoral agents and related substances	125, 475, 1954
DUNCAN, P R	, Evans, D G, Harper, A A, Howat, H T, Oleesky, S, Scott, J E and Varley, H The use of the cholecystokinetic agent in preparations of pancreozymin to study gall bladder function in man	<b>121</b> , 19 <i>P</i> , 1953
DURNIN, J V G A	, Garry, R C Passmore R and Warnock, G M The expenditure of energy and the consumption of food by miners and by clerks, East Fife,	122 547 1059
"	Scotland A light weight respiratory valve	122, 54 <i>P</i> , 1953 124, 5 <i>P</i> , 1954
,,	and Weir, J B de V Variations in the metabolic	
	cost of standard activities An exercise experiment under field conditions	125, 60 <i>P</i> , 1954 127, 32 <i>P</i> , 1954
"	and Edwards, R G Measurement of pulmonary ventilation as an index of energy expenditure	227, 022 , 200
	during field surveys	128, 46 <i>P</i> , 1955
"	The oxygen consumption, energy expenditure, and efficiency of climbing with loads at low altitudes and Mikulicic, V The effects of graded exercises on	128, 294, 1955
"	the energy expenditure and heart rates of young and elderly men	131 22 <i>P</i> , 1956
EAD, H W	, Green, J H and Neil, E A comparison of the effects of pulsatile and non pulsatile pressures on the carotid sinus (T)	117 32P, 1952

	INDEA OF HOTHORS	
EAD, H. W	, Green, J H and Neil, E A comparison of the effects of pulsatule and non pulsatule blood flow through the carotid sinus on the reflexogenic	
	activity of the sinus baroceptors in the cat	118, 509, 1952
"	producing oxers systems as a	130, 38 <i>P</i> , 1955
Eade, N R	Blaschko, H, Born, G V R, D'Iorio, A and Sedi mentation of adrenal medullary granules in hypertonic sucrose	132, 44 <i>P</i> , 1956
,,	Differential sedimentation of noradrenaline in homogenates of adrenal medullary granules	132, 53 <i>P</i> , 1956
**	D Iorto, A and Catechol amines and adenosine triphosphate (ATP) in the suprarenal gland of	133, 17 <i>P</i> , 1958
"	the rabbit  Blaschlo, H, Born, G V R, D Iorio, A and Observations on the distribution of catechol amines and adenosinetriphosphate in the bovine adrenal	133, 171 , 1330
	medulla	133, 548, 1956
Easton, D N	Bradley, K, — and Eccles, J C The temporal course of direct inhibition evoked by single and repetitive volleys (T)	117, 64 <i>P</i> , 1952
1)	Bradley, K, —— and Eccles, J C An investigation of primary or direct inhibition	122, 474, 1953
Eccles, J C	Brock, $L$ $G$ , Coombs, $J$ $S$ and Synaptic excitation and inhibition	117, 8 <i>P</i> , 1952
"	Bradley, K, Easton, D M and The temporal course of direct inhibition evoked by single and repetitive volleys (T)  Brock, L G, Coombs, J S and The recording of	117, 64 <i>P</i> , 1952
,	potentials from motoneurones with an intra- cellular electrode	117, 431, 1952
,	and McIntyre, A K The effects of disuse and of activity on mammalian spinal reflexes  Brock, L G, Coombs, J S and Intracellular	121, 492, 1953
	recording from antidromically activated moto neurones  Bradley, K and Analysis of the fast afferent im	122, 429, 1953
	pulses from thigh muscles  Bradley, K, Easton D M and An investigation	122, 462, 1953
,	of primary or direct inhibition, Fatt, P, Landgren, S and Winsbury, G J Spinal cord potentials generated by volleys in the large	122, 474, 1953
17	muscle afferents , Fatt, P and Koketsu, K Chokinergic and inhibit	<b>125,</b> 590, 1954
,	tory synapses in a pathway from motor axon collaterals to motoneurones  Eccles, Rosamond M and Fatt, P The action of	126, 524, 1954
,	drugs on central cholinergic synapses  Coombs, J. S., —— and Fatt, P. The electrical	120 1070 1077
,	properties of the motoneurone membrane  Coombs, J. S., —— and Fatt, P. The specific remains	130, 291, 1955
	conductances and the ionic movements across the motoneuronal membrane that produce the	
1	inhibitory post-synaptic potential  Coombs, J. S., — and Fall, P. Excitatory synaptic action in motonourones	130, 326, 1955
	- tradeto accion at motodontones	130, 374, 1955

Eccles, J C	Coombs, J S, — and Fatt, P The inhibitory suppression of reflex discharges from moto	•
"	neurones , Eccles, Rosamond M and Fatt, P Pharmaco logical investigations on a central synapse	<b>130,</b> 396, 1955
_	operated by acetylcholine	<b>131,</b> 154, 1956
Eccles, Rosamond M	The technique of recording from the isolated mam malian ganglion (T)  Action potentials of isolated mammalian sym	117, 2P, 1952
"	pathetic ganglia Responses of isolated curarized sympathetic	<b>117,</b> 181, 1952
29	ganglia  Brock, L G, — and Keynes, R D The dis	117, 196, 1952
,,	charge of individual electroplates in Raia clavata	<b>122,</b> 4 <i>P</i> , 1953
"	Eccles, J. C., —— and Fatt, P. The action of drugs on central cholinergic synapses	129, 40P, 1955
,,	Intracellular potentials recorded from a mammalian sympathetic ganglion	<b>130,</b> 572, 1955
"	Eccles, J. C., —— and Fatt, P. Pharmacological investigations on a central synapse operated by acetylcholine	<b>131,</b> 154, 1956
Edge, N D	A contribution to the innervation of the urinary bladder of the cat	127, 54, 1955
EDHOLM, O G	Cooper, K E, — and Mottram, R F The partition of the blood flow between skin and muscle in the human forearm	<b>123</b> , 33 <i>P</i> , 1953
"	, Moretra, M F and Werner, Attie Y The measure- ment of forearm blood flow during a raised venous pressure	125, 41 <i>P</i> , 1954
"	Cooper, K E, —, Fletcher, J G, Fox, R H and Macpherson, R K Vasodilatation in the forearm during indirect heating	125, 56 <i>P</i> , 1954
"	, Moreira M F and Werner, Attie Y The effect of a raised venous pressure on venous oxygen	·
**	content of the forearm $(T)$ and Fletcher, $J$ $G$ Daily energy expenditure	125, 57 <i>P</i> , 1954
,,	patterns in young men, Fletcher, J. G., McCance, R. A. and Widdowson, Elsie M. Comparison between daily energy	128, 18 <i>P</i> , 1955
**	expenditure and dietary intake in man $Cooper$ , $K E$ , — and $Mottram$ , $R F$ The blood	<b>128,</b> 19 <i>P</i> , 1955
37	flow in skin and muscle of the human forearm, Fox, R H and Macpherson, R K The effect of	128, 258, 1955
38	cutaneous anaesthesia on skin blood flow  Barcroft, H, —, Foster, C A, Fox, R H and	132, 15P, 1956
"	Macpherson, R K The effect of nerve block on forearm blood flow	132, 16 <i>P</i> , 1956
,,	, Fox, R H and Macpherson, R K The effect of body heating on the circulation in skin and muscle	134, 612 1956
EDINGTON, G M	, Lehmann, H and Walters, J H Observations on haemoglobin C and G in West Africa (T)	<b>131</b> 22 <i>P</i> , 1956
EDWARDS, C	The effect of electric polarization of sensory nerve endings on the discharge from a muscle spindle	124 2P, 1954
,,	Changes in the discharge from a muscle spindle produced by electrotonus in the sensory nerve	127 636, 1955

EDWARDS, C	and Harris. E J Effects of temperature, K 10113	130, 456, 1955
"	and strophanthin on tracer sodium output from frog sartorn (T)  Ruchie, J. M. and Willie, D. P. Effect of some	130, 56 <i>P</i> , 1955
,,	cations on the active state of muscle	133, 412, 1956
Edwards, D A. W	, Honour, A J and Poulands, E N Method for recording rapid changes of pressure in the human gut	120, 36 <i>P</i> , 1953
EDWAEDS, D C	and Owen, E. C. The estimation of lysine by Gale's bacterial specific decarboxylase method and comparison with paper chromatography (T)	121, 41 <i>P</i> , 1953
EDWARDS R G	An oro nasal mask	127, 49 <i>P</i> , 1955
,	Durnin, J V G A and Measurement of pul monary ventilation as an index of energy expen- diture during field surveys and Lippold O C J The relation between force and integrated electrical activity in fatigued muscle	128, 46 <i>P</i> , 1955 132, 677, 1956
EGGLETON, M. GRACE	The effect of injection of hypertonic salt solution on the chloride content of mammalian skin and Shuster, S Excretion of glucose by the cat's	117, 172, 1952
.,	kıdnev	122, 54P, 1953
11	and Shuster, S Glucose and phosphate excretion m the cat	124, 613, 1954
"	and Shueter, S The effect of insulin on the excre- tion of glucose and phosphate by the kidney of the cat	124, 623 1954.
<b>37</b>	Demp.ter, W J —— and Shuster S The effect of hypertonic infusions on glomerular filtration rate and glucose reabsorption in the kidney of the dog	132, 213, 1956
EISEN V D	and Lewis, A. A. G. Antidiuretic activity of human urine after stimulation of the supraoptico hypo	102, 210, 1000
"	physial system Stimulation of renal potassium excretion in the	122, 33P, 1953
11	adrenalectomized rat  Bryant T H E, —, Ellis P E and Wilson, C W M The effect of ionizing radiation on	126, 47 <i>P</i> , 1954
11	tissue histamine  , Elli* R E and Wilson, C W M The effect of  \[ \text{\tikit}\text{\texitext{\texitext{\text{\text{\text{\text{\text{\texitext{\texi}\text{\texict{\text{\texit{\text{\text{\texi}\text{\texit{\text{\text{\	
ELCONTE P I	, Fischer, M. Isabel, Maccon. C. A. and Millar, M. Jean. The effect of zinc deficiency on the male genital system.	
ELDPED E	, Grant P Holmgren, B and Merton P A Pro- prioceptive control of muscular contraction and the cerebellum	l.
•	Granit P and Merion P A Supraspinel control	
Fidfidge	of the muscle spindles and its significance and Pa on W D M The release of histamine from	122 495 1953
FLEANOR	cat s isolated perfused skin by amino acids	124, 27 <i>P</i> , 1954

ELITHORN, A. ELKES, C	Dawson, G D and A two channel chronograph Bradley, P B, — and Elkes, J On some effects of lysergic acid diethylamide (LSD 25) in	
Elkes, J	normal volunteers  Bradley, P B and The effect of amphetamine and D lysergic acid diethylamide (LSD 25) on the	
	electrical activity of the brain of the conscious cat	<b>120,</b> 13 <i>P</i> , 1953
**	Bradley, P B and The effect of atropine, hyoscy amine, physostigmine and neostigmine on the electrical activity of the brain of the conscious cat	
"	Bradley, P B, Elles, C and On some effects of lysergic acid diethylamide (L S D 25) in normal volunteers	
"	Bradley, P B, Cerquiglini, S and Some effects of disopropylfluorophosphate on the electrical activity of the brain of the cat	121, 50 P, 1953 121, 51 P, 1953
ELLIS, F P	, Ferres, Helen M, Lind, A R and Newling, P S B  The upper tolerable levels of warmth for ac climatized European men working in the tropics	<b>125</b> , 55 <i>P</i> , 1954
"	, Ferres, Helen M and Lind, A R The effect of water intake on sweat production in hot environments	<b>125,</b> 61 <i>P</i> , 1954
ELLIS, R E	Bryant, T H E, Eisen, V D, —— and Wilson, C W M The effect of ionizing radiation on tissue histamine	<b>130</b> , 33 <i>P</i> , 1955
"	Eisen, V D, — and Wilson, C W M The effect of X irradiation on tissue histamine in the rat	133, 506, 1956
Emmelin, N	and Macintosh, F C The release of acetylcholine from perfused sympathetic ganglia and skeletal muscles	131, 477, 1956
Engbaek, Lise	delCastillo, J and The nature of the neuromuscular block produced by magnesium	120, 54 <i>P</i> , 1953
"	del Castillo, J and The nature of the neuro muscular block produced by magnesium	124, 370, 1954
Enns, T	Campbell, E J M —, Martin, H B and Shepard, R H Factors affecting the pulmonary dead space as determined by single breath	120 57 7 1055
Epstein, H G	analysis (T)  Cairns H, Cole, J, —, Gardner M and Glees, P	<b>130,</b> <i>57P</i> , 1955
,,	Temporary depression of cortical function by local anaesthetic and cooling  Bull A B, Cole, J, —— and Glees, P The effects	119, 44 <i>P</i> , 1952
"	of injecting a local anaesthetic into the subcortex of the cat (Film) (T)	129, 7P, 1955
ERIKSON, L B	and Glees, P Sprouting of cortical nerve fibres following skin homografts into the cerebral cortex	<b>120,</b> 17 <i>P</i> , 1953
ERSPAMER, V	Observations on the fate of indolalky lamines in the organism	127, 118, 1955
,,	Observations on the release of 5 hydroxytrypt- amine from the gastro intestinal mucosa (T)	129, 10 <i>P</i> , 1955
,,	Some observations on the fate of exogenous 5 hydroxytryptamine (enteramine) in the rat	133, 1, 1956

ERULKAR, S D	Davies, P W, — and Rose, J E Single unit activity in the auditory cortex of the cat and Fillenz, Marianne The effects of light flashes	126, 25 <i>P</i> , 1954
,,	on single unit activity in the lateral geniculate body of the cat	133, 46 <i>P</i> , 1956
EULEB, C VON	see von Euler, C	404 4879 1054
Evans, C Lovatt	and Smith, D F G On sweating in the horse, Smith, D F G and Weil Malherbe, H The adrenalme and noradrenalme of venous blood	126, 45 <i>P</i> , 1954
"	of the horse before and after exercise, Smith, D F G and Weil Malherbe, H The relation between sweating and the catechol	128, 50 <i>P</i> 1955
	content of the blood in the horse  Bell, F R and Sweating and the innervation of	132, 542, 1956
**	sweat glands in the horse  Bell, F R and The relation between sweating and	133, 67 <i>P</i> , 1956
**	the unervation of sweat glands in the horse	134, 421, 1956
Evans, D G	Duncan, P. R., —, Harper, A. A. Howat, H. T., Oleesky, S., Scott, J. E. and Varley, H. The use of the cholecystokinetic agent in preparations of pancreozymin to study gall bladder function in man	<b>121</b> , 19 <i>P</i> , 1953
Evans, D H L	and Schild, H O Effects of removal of enteric	
·	plexuses on the reaction of intestinal circular muscle to drugs (T)  Daly, M de Burgh and Structural and functional	116, 49 <i>P</i> , 1952
27	changes in the vagus after degenerative section of the nerve at different levels (T)	117, 20 <i>P</i> , 1952
,	and Schild, H O The reactions of plexus free circular muscle of cat jejunum to drugs	119, 376, 1953
**	Cragg, B G —— and Hamlyn L H Chicken's optic tectum histological structure	120, 51P, 1953
**	and Murray, J G Orientation of regenerating non-medullated nerves	120, 52 <i>P</i> , 1953
**	Daly M de Burgh and Functional and histo logical changes in the vagus nerve of the cat	110, 021, 1000
,,	after degenerative section at various levels and Schild, H O Reactions of nerve free and	120, 579, 1953
	chromically denervated plain muscle to drugs and Schild $H$ $O$ Reactions of chick amnion to	122, 63P, 1953
Evans I E	stretch and electrical stimulation	132, 31 <i>P</i> , 1956
EVANS 1 E	<ul> <li>and Robson, J M Local antagonism of the effects</li> <li>of oestrogen and progesterone</li> <li>and Robson J M The effect of SKF 525 (β di</li> </ul>	124, 39 <i>P</i> , 1954
,	ethylaminoethyl diphenylpropylacetate) on the duration of action of synthetic and natural oestrogens (T)	128, 24 <i>P</i> , 1955
Evans L J	and White K Construction of an electro titration apparatus by modification of a Conway burette	ı
EVANG N H	Distribution of splanehnic evoked potentials in cat	
EVANG W A	Bishop P O and The refractors period of the sensors synapses of the lateral geniculate nucleus	
F71/80/ J M	Beautick, F B and Irradiation of the man-	
	synaptic reflex during post tetanic potentiation	124, 60P, 1954

Evanson, J M	Beswick, F B, Blockey, N J and Some effects of the stimulation of articular nerves	<b>128</b> , 83 <i>P</i> , 1955
"	Beswick, F B and Reflex effects of repetitive stimulation of group I muscle afferent fibres	128, 83 <i>P</i> , 1955
27	Beswick, F B and The heterosynaptic activation of motoneurones during post-tetanic potentiation	<b>128,</b> 89, 1955
,,	Beswick, F B, — and Fenten, P H Activation of heteronymous motoneurones during post-tetanic potentiation (T)	<b>132,</b> 53 <i>P</i> , 1956
11	The presynaptic localization of the depression following monosynaptic reflex activity	132, 61 <i>P</i> , 1956
Eveleigh, J W	and Annsworth, $M$ An integrating soap film flow meter	<b>124</b> , 6 <i>P</i> , 1954
Exley, K A	The blocking action of choline 2.6 xylyl ether bromide on adrenergic nerves	133, 70 <i>P</i> , 1956
Fabry, Claudine	Dallemagne, $M$ $J$ , —— and Posner, $A$ $S$ The relation between bone salts and certain synthetic apatites	<b>126,</b> 18 <i>P</i> , 1954
<b>Г</b> анму, А	and Huggett, A St G Comparative histochemistry of carbohydrate in the placenta (T)	<b>120,</b> 22 <i>P</i> , 1953
FALCONER, D	Inherited neurological disorders in mice (Film) (T)	118, 6P, 1952
Fänge, R	Augustinsson, KB, —, Johnels, A and Ostlund, E Histological, physiological and bio chemical studies on the heart of two cyclostomes, hagfish (Myxine) and lamprey (Lampetra)	131, 257, 1956
Fantl, P	and Nelson, J F Coagulation in lymph	122, 33, 1953
FARRELL, J H	The digestibility of raw and cooked meat	133, 40P, 1956
FASTIER, F N	and Smirk, F H Nature of ventricular flutter induced by amarin and adrenaline (Film) (T)	<b>118</b> , 6 <i>P</i> , 1952
<b>Г</b> атт, Р	and $Katz$ , $B$ Electric responses of single crustacean muscle fibres	117, 15 <i>P</i> , 1952
,,	and Katz, B Spontaneous subthreshold activity at motor nerve endings	117, 109, 1952
,,	and Katz, B The action of inhibitory nerve impulses on the surface membrane of crustacean muscle fibres	118, 47 <i>P</i> , 1952
"	and Katz, B The effect of sodium ions on neuro muscular transmission	118, 73, 1952
,,	and Katz, B The electrical properties of crus tacean muscle fibres	120, 171, 1953
,,	and Katz, B The effect of inhibitory nerve impulses on a crustacean muscle fibre	121, 374, 1953
,,	Eccles, J. C., ——, Landgren, S. and Winsbury, G. J. Spinal cord potentials generated by	105 500 1051
"	volleys in the large muscle afferents  Eccles, J. C., —— and Kohetsu K. Cholinergic and inhibitory synapses in a pathway from	<b>125</b> 590 1954
99	motor axon collaterals to motoneurones  Eccles. J. C., Eccles, Rosamond M. and The action	126 524 1954
<i></i>	of drugs on central cholinorgic synapses  Coombs, J S, Eccles, J C and The electrical	<b>129,</b> 40 <i>P</i> , 1955
,,	properties of the motoneurone membrane	<b>130</b> , 291, 1955

	INDIA OF HOUSE	
Fatt, P	Coombs, J S, Eccles, J C and The specific ionic conductances and the ionic movements across the motoneuronal membrane that produce the inhibitory post-synaptic potential	130, 326, 1955
37	Coombs, J S, Eccles, J C and Excitatory	130, 374, 1955
31	Coombs, J. S., Eccles, J. C. and The inhibitory suppression of reflex discharges from motoneurones	130, 396, 1955
"	Eccles, J. C., Eccles, Rosamond M. and Pharmaco logical investigations on a central synapse operated by acetylcholine	131, 15 <del>1</del> , 1956
FAWCETT, D W	and Lyman, C P The effect of low environmental temperature on the composition of depot fat in relation to hibernation	126, 235, 1954
Farts, H. T	and Landells, J W The application of collagenase and hvaluronidase to the study of cartilage in histological sections	119, 5 <i>P</i> , 1952
Featherstone, R	Diamond, J, — Gray, J A B and Inman, D R The perfusion of a Pacinian corpuscle	132, 27 <i>P</i> , 1956
FELDBERG, W	Gray, J. A. B. and Perry, W. L. M. A method of investigating the effects of close arterial injections on spinal cord activity.	117, 1 <i>P</i> , 1952
**	and Talesnik, J Histamine recovery in the rat's and dog s skin	117, 3 <i>P</i> , 1952
**	and Schachter, M Histamine release from skin by horse serum	117, 3 <i>P</i> , 1952
79	and Harris, G W Histamine profiles of the mucosa of the gastro-intestinal tract of the dog	117, 31 <i>P</i> , 1952
,,	and Schachter, M. Histamine release by horse serum from skin of the sensitized dog and non sensitized cat	118, 124, 1952
	and Toh, C C Distribution of 5 hvdroxvtrvpt-	220, 121, 1002
	amine (serotonin, enteramine) in the wall of the digestive tract	119, 352, 1953
,	, Gray, J A B and Perry, W L M Effects of close arternal injections of acetylcholine on the	
,	activity of the cervical spinal cord of the cat and Sherwood, S L A permanent cannula for	119, 428, 1953
**	intraventricular injections in cats and Sherwood $S$ $L$ Intraventricular injections of	120, 3P, 1953
	acetylcholine and of 5 hydroxytryptamine (sero- tonin) into the conscious cat and Miles, A. A. Regional variations of increased	120, 12 <i>P</i> , 1953
	permeability of skin capillaries induced by a histamine liberator and their relation to the	
•	histamine content of the skin and Harris, G. W. Distribution of histamine in the	120, 205 1953
,	and Tale nul J Reduction of tissue histamine by	170 070 1000
	and Sherwood S A method for injection of drawn	120 550 1000
,	and Smith A. N. Release of histography	400
	and Sherwood S L Injections of drives into the	400
	lateral ventricle of the cat	123, 148, 1954

FELDBERG, W	and Sherwood, S L Injections of DFP into the cerebral ventricle of the cat (T)	<b>123</b> , 69 <i>P</i> , 1954
"	and Smith, A N The role of histamine release for the motor effects of histamine liberators on the	
"	guinea pig's ileum preparation  and Sherwood, S. L. Behaviour of cats after intra  ventricular injections of eserine and DFP	124, 219, 1954 125, 488, 1954
"	and Loeser, A A Histamine content of human skin in different clinical disorders	126, 286, 1954
,,	, Malcolm, J L and Sherwood, S L A method of studying the actions of drugs injected intra ventricularly on evoked responses in the cortex and mid brain of the cat (T)	
"	, Malcolm, J L and Sherwood, S L Some effects of tubocurarine on the electrical activity of the cat's brain	132, 130, 1956
,,	Beraldo, W T, — and Hilton, S M Experiments on the factor in urine forming substance U	<b>133</b> , 558, 1956
"	and Greengard, P Release of histamine from the perfused sciatic nerve by 48/80	133, 63 <i>P</i> , 1956
FELL, HONOR B	and Mellanby, E The effect of hypervitaminosis A on embryonic limb bones cultivated in vitro	116, 320, 1952
,,	and Mellanby, E Metaplasia produced in cultures of chick ectoderm by high vitamin A	119, 470, 1953
77	and Mellanby, E The biological action of thyroxine on embryonic bones grown in tissue culture	127, 427, 1955
"	and Mellanby, E The effect of L truedothyronine on the growth and development of embryonic chick limb bones in tissue culture	133, 89, 1956
,,	, Mellanby, the late E and Pelc, S R Influence of excess vitamin A on the sulphate metabolism of bone rudiments grown in vitro	<b>134</b> , 179, 1956
FENTEM, P H	Beswick, F B, Evanson, J M and Activation of heteronymous motoneurones during post tetanic potentiation (T)	<b>132,</b> 53 <i>P</i> , 1956
"	The occurrence of occlusion in the direct inhibitory pathway	132, 60 <i>P</i> , 1956
"	Beswick, F B and A comparison of the effects of the repetitive activation of the inhibitory and excitatory collaterals of group I muscle afferent fibres	134, 15 <i>P</i> , 1956
Ferguson, I D	and MacKichan, D C A float volume recorder in Perspex	116, 12 <i>P</i> , 1951
"	Anderson, I and A simple vibrator for kymograph recording	116, 43 <i>P</i> , 1952
"	and Garry, R C An improved Mariotte constant pressure device	118, 4 <i>P</i> , 1952
"	and Levinson N Response to temperature in the	118, 59 <i>P</i> , 1952
,,	and Levinson, N Vascular responses in the isolated ear of the rabbit	119, 14 <i>P</i> 1952
,,	and Gray A T An optical manometer for recording pressures within the urinary bladder	121 25P, 1953
,,	Brown, D —— and Ramsay, A G Guinea pigs reared on a diet containing synthetic ascorbic acid	121, 36 <i>P</i> , 1953
**	and Ramsay, A G An automatic refilling water container for laboratory animals	121, 37 <i>P</i> , 1953

Ferguson, I D	and Leunson, N Vascular responses to tempera	122, 35 <i>P</i> , 1953
	ture in the denervated isolated rabbit ear and Gray, A. T. Acute decerebration in the grev	122, 557, 1853 122, 69 <i>P</i> , 1953
	and Garry, R C A simple method to record	, , , , , , ,
,	changes in the volume of hollow organs at constant pressure  Hale A J and Ramsay, A G The amount of	<b>125</b> , 51 <i>P</i> , 1954
	colloid in the thyroid glands of guinea pigs and Levinson, N Vascular responses to temperature	126, 48P, 1954
•	in the perfused isolated ear of the rabbit	128, 608, 1955
Ferrari, V	and Harlness, R D Free amino acids in liver and blood after partial hepatectomy in normal and adrenalectomized rats	<b>124,</b> 443 1954
FERPEIRA H M	Chagas C, —— and Sollero, L The utilization of acetylcholine during the discharge of Electrophorus electricus (T)	117, 9 <i>P</i> , 1952
Ferres Helen M	Fox, R H and Lind, A R Individual variation	117, 01 , 1002
	in energy expenditure  4dam, J M and Observations on oral and rectal	123, 74P, 1954
,	temperatures in the humid tropics and in a temperate climate  Ellis F P, —, Lind A R and Newling, P S B	<b>125</b> , 21 <i>P</i> , 1954
	The upper tolerable levels of warmth for ac climatized European men working in the tropics Ellis F P — and Lind, A R The effect of	125, 55P, 1954
	water intake on sweat production in hot en	125, 61 <i>P</i> , 1954
	Brough, W. H., Cooper, K. E. and A modified foot plethysmograph for rapid assembly in operating	•
•	theatres (T)  Cooper, K E, — Kenyon, J R and Wendt, F  A comparison of oesophageal, rectal and para	130 1P, 1955
	aortic temperatures during hypothermia in man Cooper K E — and Mottram, R F Changes in	<b>130,</b> 10 <i>P</i> , 1955
	hand blood flow evoked by rapid alteration of the radiant heat exchange between the front of	
	the body and the environment  Cooper K E —— and Guttmann L Foot blood  flow changes occurring when the body tempera	131, 29 <i>P</i> , 1956
	ture is raised in the chronic spinal man	132 11 <i>P</i> , 1956
FERRIS B G	Wellroy M B, Wead, J Radford E P and Whitenberger J L The principles of respiratory mechanics	
FESSARD A	Albe Fessard D Buser, P and Complex wave patterns from the electric lobe of Tornedo	131, 1 <i>P</i> , 1956
Fild D \	marmorata (T)	117, 9P 1952
, , ,	A quick response ratemeter for the measurement of heart rates A portable e c g pre amphifier for pulse counting	129, 4P, 1955
FIFLD F J	Carlyle A — Grayson J and Rogers A F Blood flow reactions in the brain	129 4P, 1955
Firitors R	Bain W. A and Preliminary experiments on the mode of action of choline 2.6 xxhlether bromide	124, 56P 1954
_	on adrenerge nerves	133, 70 <i>P</i> , 1956

133, 70P, 1956

FILLENZ, MARIANNE " ,	Cooper, Sybil and Afferent discharges from the extrinsic eye muscles of the cat Visual responses in the brain stem Cooper, Sybil and Afferent discharges in response to stretch from the extraocular muscles of the	118, 49 P 1952 122, 24 P, 1953
	cat and monkey and the innervation of these muscles  Responses in the brainstem of the cat to stretch of	<b>127,</b> 400, 1955
,,	extrinsic ocular muscles  Erulkar, S D and The effects of light flashes on	<b>128,</b> 182, 1955
	single unit activity in the lateral geniculate body of the cat	133, 46 <i>P</i> , 1956
FINCHAM, E F	Illustrations of the effects of diffraction in the human eye (T)	<b>116,</b> 52 <i>P</i> , 1952
"	Retinal chromatic differentiation in colour blind subjects	<b>120</b> , 60 <i>P</i> , 1953
,,	Defects of the colour sense mechanism as indicated by the accommodation reflex	121, 570, 1953
	The proportion of ciliary force required for ac commodation (T)	126, 25P, 1954
"	The proportion of ciliary muscular force required for accommodation	128 99, 1955
FINDLAY, J D	Beakley $W$ $R$ and $A$ climatic chamber for large animals	<b>121</b> , 40 <i>P</i> , 1953
,,	and Goodall A M Arterio venous anastomoses in the perichondrium and skin of the ear of the Ayrshire calf	121 46 <i>P</i> , 1953
	Beakley, W R and The effect of thermal environment on the rectal temperatures of calves	121, 47P 1953
	The respiratory behaviour of calves exposed to increasing thermal stress	130, 16 <i>P</i> , 1955
FINNAN E J	and Shepherd $J$ $T$ A combination of ergometry and plethysmography for investigating the circulation through the leg muscles $(T)$	118, 56 <i>P</i> , 1952
FISCHER, M ISABEL	Elcoate, P V, — Mawson, C A and Millar, M Jean The effect of zinc deficiency on the male genital system	<b>129</b> 53 <i>P</i> , 1955
FISCHER P	Bacq Z M and The action of cysteamine and related substances on liver glycogen (T)	121, 56P 1953
,,	Bacq, Z M, Beaumariage M L and Protection of suprarenals and liver against X rays by cysteamine	<b>126</b> 15 <i>P</i> , 1954
Fisher, E W	Black, J W, — and Smith, A N The effect of 5 hydroxytryptamine on gastric secretion (T)	129, 62 <i>P</i> , 1955
FISHER, R B	Bleehen N M and The action of insulin on the surviving rats heart	118, 27 <i>P</i> , 1952
,,	and Parsons, D S Glucose movements across the wall of the rat small intestine	119, 210 1953
,,	and Parsons D S Galactose absorption from the surviving small intestine of the rat	119 224 1953
,,	Bleehen, N M and The action of insulin in the	123 260 1954
,	and Lindsay D B The effect of insulin on the penetration of galactose into the perfused rat heart	124 20P, 1954

	INDUM OF THE	
FISHER, R B	The absorption of water and of some non electro lytes from the surviving small intestine of the rat The absorption of water and of some small solute	124, 21 <i>P</i> , 1954
"	molecules from the isolated small intestine of	130, 655, 1955
11	and Lindsay, D B The action of insulin on the penetration of sugars into the perfused heart Bronk, M Sylvia and The action of a purified	131, 526 1956
•	growth hormone preparation on the carbohy drate metabolism of the perfused rat heart	133, 7 <i>P</i> , 1956
FitzHugh, R	Barlow, H B, — and Kuffler, S W Resting discharge and dark adaptation in the cat	125, 28 P, 1954
FITZPATRICK, R J	The reactivity of the ruminant uterus to oxytocin and vasopressin	124, 58 <i>P</i> , 1954
FLECKENSTEIN, A	Burn, J H and Augmentation and diminution of sensitivity to sympathomimetic amines by denervation of the cat's nictitating membrane	118 34 <i>P</i> , 1952
Fletcher, J G	Some observations on skin temperature and the onset of sweating (T)	<b>116</b> , 10 <i>P</i> , 1951
,	Histamine acetylcholine inhibition in the isolated rat uterus (T) and Wolff, H S A light-weight integrating motor	120, 63 <i>P</i> , 1953
"	pneumotachograph (1 m p) with constant low resistance  Cooper, K E, Edholm, O G, — Fox, R H and	123, 67 <i>P</i> , 1954
**	Macpherson R K Vasodilatation in the forearm during indirect heating	125, 56 <i>P</i> , 1954
**	The calorie expenditure of cricket (T)	127, 19P, 1954
**	Edholm O G and Daily energy expenditure	
,	patterns in young men  Edholm, O. G., —, McCance, R. A. and Widdowson,  Elsie M. Comparison between daily energy expenditure and dietary intake in man	128, 18 <i>P</i> , 1955
P 73	•	128, 19 <i>P</i> , 1955
FLOREN E	and McLennan, H The release of an inhibitory substance from mammalian brain, and its effect on peripheral synaptic transmission and McLennan H Effects of an inhibitory factor (Factor I) from brain on central synaptic trans	129, 384, 1955
_	mission	130 446, 1955
FLOID, W F	Electromy ography of the erectores spinae muscles in flexion of the lumbar vertebrae (Film) (T) and Silver P H S Comparative ments of ink	117, 22 <i>P</i> , 1952
	writer and cathode raj oscillographs for electro	117, 36 <i>P</i> , 1952
	Chennells Mary and Reflex activity in abdominal and limb muscles  Chennells Mary and Interaction of limb and ab	118, 196 1952
	dominal reflexes in the cat (T) and Walls E W Electromy ographic recording	119, 31 <i>P</i> 1952
	from the sphincter and externus in man (T)  and Silver P H S Electromy ography of the erectores spinno muscles in flexion of the lumbar	119, 41 <i>P</i> , 1952
	vertebrae (T)  and Walls E W Electromvegraphy of the sphincter and externus in man	119 41 12 2020
	spanned an externus in man	121, 49 <i>P</i> , 1953

	o o o min ma or important	
FLOYD, W F	and Walls, E W Electromy ography of the sphincter and externus in man and Silver, P H S The function of the erectores	<b>122</b> , 599, 1953
	spinae muscles in certain movements and postures in man	<b>129</b> , 184, 1955
"	Chennells, Mary and Effects of posture and of parameters of stimulation on reflexes in man	130 31 <i>P</i> , 1955
Fluckiger, E	and Keynes, R D The calcium permeability of Loligo axons	128 41 <i>P</i> , 1955
Forster, C A	, $Heaf, P \ J \ and \ Sample, S \ J \ $ Compliance of the lungs during anaesthesia (T)	133, 58 <i>P</i> , 1956
Forwell, G D	The response of the leucocyte count in man to en vironmental heat and to exercise	<b>124</b> 66 <i>P</i> , 1954
,,	Bulmer, M G and The concentration of sodium in thermal sweat	
,,	Bulmer, $M$ $G$ and The concentration of sodium in thermal sweat	132, 115, 1956
Fossey, P	Arnott, D G and Equipment for studying the distribution of $\gamma$ active radio isotopes in small animals	
Foster, C A	Barcroft, H, Edholm, OG, —, Fox, RH and Macpherson, RK The effect of nerve block on forearm blood flow	
FOSTER, W C	Protein bound iodine in the anterior and posterior hypophysis of cattle (T)	133, 41 <i>P</i> , 1956
Fox, R H	Ferres, Helen M, —— and Lind, A R Individual variation in energy expenditure	123, 74 <i>P</i> , 1954
,,	and Macpherson, $\hat{R}$ K. The regulation of body temperature during fever	125, 21 <i>P</i> , 1954
**	Cooper, K E, Edholm, O G, Fletcher, J G, —— and Macpherson R K Vasodilatation in the fore arm during indirect heating	125, 56 <i>P</i> , 1954
"	Edholm, O G, — and Macpherson, R K The effect of cutaneous anaesthesia on skin blood flow	132, 15 <i>P</i> , 1956
"	Barcroft, H Edholm O G, Foster, C A, —— and Macpherson, R K The effect of nerve block on	
"	forearm blood flow and Hilton, S M Sweat gland activity as a con tributory factor to heat vasodilatation in the	132 16 <i>P</i> , 1956
"	human skin  Edholm, O G — and Macpherson R K The effect of body heating on the circulation in skin	<b>133</b> , 68 <i>P</i> , 1956
	and muscle	134, 612, 1956
FRANCIS, C M	Cytological and histochemical observations on the retina (T)	117, 44 P, 1952
"" "	Succinic dehydrogenase in the visual cells Cholinesterase in the retina Amine oxidase in the guinea pig adrenal medulla	119, 38 P, 1952 120, 435 1953 124, 188 1954
,, 	Davies F, Davies, R E — and Whittam R The	124, 188 1882
Francis, E T B	sodium and potassium content of cardiac and other tissues of the $ox$	<b>118,</b> 276 1952
FRANGLEN, G T	, McGarry, Eleanor and Spencer, A G Renal function and the excretion of potassium in acute alkalosis	121 35, 1953

Feane, K.	and Fuores, M. G. P. Potentials recorded from the spinal cord with microelectrodes	130, 625 1955
<i>#</i>	and Fuortes, M G F Unitary artivity of spinal	131 424, 1956
**	and Fuorto, M. G. F. S'unulation of spinal moto- neurones with intravellular electrodes	134, 451 1956
FRANCENHAEUSER,B	Saltator conduction in invelinated nerve fibres	118, 107 1952
77	and Hodokun A L The effect of calcium on the sodium permeability of a giant nerve fibre or 4 Hodokun, A L The after-effects of impulses in	128 40P, 1955
27	giant nerve fibres	129 51 <i>P</i> 1955
r	and Widen, Lernar Anode break excitation in descreathed frog norme and Hodglin A. L. The after-effects of impulses m	131, 243, 1956
	the gian' nerve fibres of Lolico	131, 341, 1956
Feanelis, K. J	Ute-me influence upon intrarenal blood distri-	440 457 1053
	bution (T)	119, 25P 1952
7*	Movements of the rabbut s ureter (Film) (I)	119, 41 P, 1952
**	and Winstons N E Parturnion in the rabbit (I)  McDonald D A and Winstons N E Parturnion in the rabbit (Film)	123, 13 <i>P</i> , 1953
	Todd, C and Winstons, N E Evocation of	123, 30P 1953
**	parturion efforts and b'ood-pressure changes	
	m the non pregnant doe rabbit (T)	123 77P 1954.
	and Winstone N E Further notes on parturation	120 111 170%
	m the rabby	125, 43 1954.
17	Aumonier F J., - and Winstone, N E Evo-	,
	cation of milk formation in the virgin rabbit (T) Aureover $F$ $J_{-1}$ — and Winstone $N$ $E$ Evo	126, 11 <i>P</i> , 1954.
,	ca ion of milk formarron in the virgin rabbit	126, 54P, 1954
**	Aumonier, F. J. — and Winstone N. E. Further observations on the rostral portion of the vagina	
	in the rabbit (T)	127 21 D 1054
77	and Wee M Urine outputs during pregnance in	127, 31 <i>P</i> , 1°54.
	rabb ts (T)	127 42P 1954.
	Told C and Www M Some harmen effects (T)	128 84P 1955
FEAZER J F D	Alexander D Paulire and In erchangeability of	
	de' and light in rat breading	116 50P 1952
	Alexarder D Pauline and The influence of d.et on	0 1 1002
	the manning of rate The effect of insulin and magnessium chloride on the	117, 69P 1952
*	tembe-s, are of the 13.	
	and Wollowm F X Comparative study on the	119 4ºP, 1º52
	response of male European tree from thula	
	attorea form (upica) to choronic consider mahin	120 95 D 2050
	Alerander D Pauline and The effect of sparing m the pregnant rat	
**	The sperma con response of the male toad (Buto	124, 36P 1954
	paro) when gonado ropam is given three hours	
	8° ( " a sub-breshold priming dosa	135 FOR
**	and Lee J Deprivorage sare a (DCA) and the	125 58P 1954
	manifolds a of premaner in the graved so:	127 -0 -
	The cause of fee all less in the sparred pregnant ra-	126 43P 195z.
	agmai 0.000 during premaner in the set	120
	Alexandre D Paulin - and Lee J Transferred	
	of grands on the main manne of promanan in	
	, <del></del>	130 148 1955

#### JOURNAL OF PHYSIOLOGY

GILLESPIE, J S	Garry, R C and The intramural organization of the parasympathetic outflow to the colon of the rabbit	<b>129</b> , 17 <i>P</i> , 1955
GILLIATT, R W	The extensor plantar response after ischaemia of the leg	118, 42 <i>P</i> , 1952
,	A mouthpiece for positive pressure ventilation in chronic respiratory paralysis (T)	<b>123</b> , 29 <i>P</i> , 1953
"	Chambers, R A and The clinical assessment of postural sensation in the fingers	123, 42 <i>P</i> , 1953
"	The effect of peripheral nerve ischaemia on post- hemiplegic disorders of movement	<b>123</b> 43 P, 1953
GINSBORG, B L	Ditchburn, R W and Involuntary eye movements during fixation	119, 1, 1953
"	Burke, W and Intracellular recording from slow muscle fibres in the frog (T)	128, 31 P 1955
,	Burke, W and Membrane changes responsible for the small nerve junctional potential	<b>129,</b> 9 <i>P</i> , 1955
	Burke, W and The electrical properties of the slow muscle fibre membrane	132, 586, 1956
"	Burke, W and The action of the neuromuscular transmitter on the slow fibre membrane	132, 599 1956
Ginsburg, Jean	Beaconsfield, P and The effect of body posture on the hand blood flow (T)	128, 59 <i>P</i> , 1955
,,	Beaconsfield P and The effect of body posture on the hand blood flow	130, 467, 1955
"	and Paton, A Effects in man of insulin hypoglycaemia after adrenalectomy	133 59P, 1956
GINSBURG, M	, $Grayson$ , $J$ and $Johnson$ , $D$ $H$ The nervous regulation of liver blood flow	117, 74 <i>P</i> , 1952
,,	and Grayson J Contributions to liver blood flow of the portal vein and hepatic artery	<b>118,</b> 16 <i>P</i> , 1952
**	and Grayson, J Factors controlling liver blood flow in the rat	123, 574, 1954
,,	The concentration of antidiuretic hormone in the blood and the fate of vasopressin in adrenal ectomized rats	<b>124</b> , 59 <i>P</i> , 1954
GINZEL, K H	and Kottegoda, S R The action of 5 hydroxytrypt- amine and tryptamine on aortic and carotid	
	sinus receptors in the cat	123 277 1954,
97	Some central effects of lysergic acid diethylamide on vasomotor responses	129, 61P, 1955
GLAISTER D H	and Green $J$ $H$ Action potentials in common carotid artery baroceptors $(T)$	130 32P, 1955
GLASER, E M	and Whittow, G C Evidence for a non specific mechanism of habituation	122 43P, 1953
,	and Lee, T S Activity of human sweat glands during exposure to cold and Newling, P S B Thermal balance in man	122, 59, 1953 129 72 <i>P</i> , 1955
GLEES, P	Cole, J and Ipsilateral impairment following area	117 54P 1952
,	4 lesions in monkeys Interrelation of the lambs and sensor motor cortex	118 43 <i>P</i> , 1952
,	and Marshland, T A Degeneration of pyramidal fibres studied by a paraffin silver method	118 51P, 1952
,	Le Beau, M and The termination of descending tectal fibres studied by the method of terminal degeneration	118 51 <i>P</i> 1952

GLEES, P  Cairns, H, Cole, J, Epstein, H G, Gardiner, M and Temporary depression of cortical function by local anaesthetic and cooling Erikson, L B and Sprouting of cortical nerve fibres following skin homografts into the cerebral cortex  Study of terminal degeneration in the cat's spinal cord following section of lumbar posterior roots (T)  Bull A B Cole, J, Epstein, H G and Tho effects of injecting a local anaesthetic into the subcortex  of the cat (Film) (T)  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of reserpin and ritalin on monkers (Film)  GLOCKLING, BERYL  Alteres W H Horner and Oxygen utilization of the perfused cannie liver and its modification by adrenaline, acetylcholine and histamine  GLOSTER J The effect of a carbonic anhydrase in the lens and retinace pressure in rabbits and Perkins, E S Carbonic anhydrase in the lens and in the citiary body and ins of albino rabbits  GLOYER T D  The effect of a short period of scrotal insulation on the semen of the ram  Linked sodium and potassium movements in human red cells  Action of cardiac givosides on red cells  Sodium and potassium movements in human red cells  GODING J R  COADS, D A, Denton, D A, ——and Wright, R D  Secretion by the parotid gland of the sheep  and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs  (T)  COLDITICH  WINCART K  ODER A and Companson of mulin and endogenous creatimine clearances in voing children  Dowadis, S A and Companson of inutin and and Smith Andrey U A simple method for re atminating ice cold ratis and mice  COLDITICH  A WYTANWI  A WYTANWI  Corpo A Papad and Excitability length tension relation in telation to hormonal status  126, 584 1953			
Study of terminal degeneration in the cat's spinal cord following section of lumbar posterior roots (T)  Bull A B Cole, J, Epstein, H G and The effects of impecting a local anaesthetic into the subcortex of the cat (Film) (T)  Cole J and Effects of lesions in the posterior parietal lobe in trained monkeys  Cole J and Effects of reserpin and ritalin on monkeys (Film)  GLOCKLING, BERYL  Andrews W H Horner and Oxygen utilization of the perfused cannie liver and its modification by adrenaline, acetylcholine and histariane  GLOSTER J The effect of a carbonic anhydrase inhibitor on the intraocular pressure in rabbits and Perkins, E S Carbonic anhydrase in the lens and in the citary body and iris of albino rabbits on the semen of the rain  GLYNY I M Linked sodium and potassium movements in human red cells  GODING J R Codts, D A , Denton, D A , — and Wright, R D Secretion by the parotid gland (T)  Coats D A Denton D A , — and Wright, R D Secretion by the parotid gland of the sheep and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs (T)  COLDITICH  Mine Airt K  COLDITICH  COLDITICH  And Richie J M The effect of adrenaline on the contraction of mammalian skeletal muscle The action of certainne clearances in young children  Doziadis, S 4 and Companson of creatinine and endogenous creatinine clearances in young children  Doziadis, S 4 and Companson of initian and endogenous creatinine clearances in young children  Colditians A and Smith Audrey U A simple method for realization and kincites of uterniae muscle contraction in plating to herefore the action of retrieve call in the perichondrium and skin of the ear of the Avrshire call  (Coduli, Marcis  Coduli, Marcis  Coduli, Marcis  Codulition to herefore and the action of certain con in relation and kincites of uterniae muscle contraction in plating to herefore contraction contraction in plating to herefore and the contraction in plating to herefore and the contraction of uterniae muscle contraction in plating to herefore and the con	GLEES, P	and Temporary depression of cortical nunction by local anaesthetic and cooling	119, 44 <i>P</i> , 1952
cord following section of lumbar posterior roots (T)  Bull A B Cole, J, Epstein, H G and The effects of injecting a local anaesthetic into the subcortex of the cat (Film) (T)  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of reserpin and ritalin on monkers (Film)  Andrews W H Horner and Oxigen utilization of the perfused canine liver and its modification by adrenaline, acetylcholine and histamine  132, 522, 1956  132, 522, 1956  132, 522, 1956  133, 1P, 1955  134, 522, 1956  135, 77P, 1955  136, 665, 1955  136, 665, 1955  137, 7955  138, 57P, 1955  139, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  131, 13, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  133, 77P, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  130, 665, 1955  131, 3, 1956  132, 522, 1956  132, 522, 1956  133, 77P, 1955  134, 278, 1955  135, 52P, 1955  136, 35P, 1955  137, 1952  138, 50P, 1955  139, 67P, 1955  130, 665, 1955  130, 665, 1955  131, 3, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  133, 1P, 1955  130, 665, 1955  130, 665, 1955  131, 3, 1956  132, 522, 1956  132, 522, 1956  132, 522, 1956  133, 655, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134, 278, 1955  134,	,	fibres following skin homografts into the cerebral cortex	120, 17 <i>P</i> , 1953
of injecting a local anaesthetic into the subcortex of the cat (Film) (T)  Cole J and Effects of lesions in the posterior parietal lobe in trained monkers  Cole J and Effects of reserpin and ritalin on monkers (Film)  GLOCKLING, BERYL  Andrews W H Horner and Oxygen utilization of the perfused canne liver and its modification by adrenaline, acetylcholine and histamme  GLOSTER J  The effect of a carbonic anhydrase inhibitor on the intraocular pressure in rabbits and Perkins, E S Carbonic anhydrase in the lens and in the ciliary body and iris of albino rabbits  GLOVER T D  The effect of a short period of scrotal insulation on the semen of the ram  Linked sodium and potassium movements in human red cells  Action of cardiac giveosides on red cells  Sodium and potassium movements in human red cells  Couts, D A, Denton, D A, —— and Wright, R D  Secretion by the parotid gland of the sheep's parotid gland (T)  Coats D A Denton D A, —— and Wright, R D  Secretion by the parotid gland of the sheep's	,	cord following section of lumbar posterior roots (T)	129, 7 <i>P</i> , 1955
GLOCKLING, BERYL  GLOCKLING, BERYL  Andrews W H Horner and Oxygen utilization of the perfused cannie liver and its modification by adrenaline, acetylcholine and histamine  GLOSTER J  The effect of a carbonic anhydrase inhibitor on the intraocular pressure in rabbits and Perkins, E S Carbonic anhydrase in the lens and in the ciliary body and iris of albino rabbits  GLYN I VI  Linked sodium and potassium movements in human red cells Action of cardiac glycosides on red cells Sodium and potassium movements in human red cells Action of cardiac glycosides on red cells Sodium and potassium movements in human red cells  Coats, D A, Denton, D A, — and Wright, R D Secretomotor mechanisms of the sheep's parotid gland (T) Coats D A Denton D A, — and Wright, R D Secretion by the parotid gland of the sheep  GOFTZEE B VI  And Ritchie J M The effect of adrenaline on the contraction of mammalian skeletal muscle The action of existeamine on a sympathetic ganglion  COLDITICH VINCAMPT K  Codylic S A and Comparison of creatume and inclin clearances in young children  Doziadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Doziadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Codylic S A and Comparison of inulin and endogenous creatinine clearances in young children  Linked S A and Comparison of inulin and endogenous creatinine clearances in young children  Doziadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Linked S A and Comparison of inulin and endogenous creatinine clearances in young children  Linked S A and Comparison of inulin and endogenous creatinine clearances in young children  Linked S A and Comparison of inulin and endogenous creatinine clearances in young children  Linked S A and Comparison of inulin and endogenous creatinine clearances in young children  Linked S A and Comparison of inulin and endogenous creatinine clearances in young children  Linked S A and Comparison of inulin and endogenous cr		of injecting a local anaesthetic into the subcortex of the cat (Film) (T)	129, 7 <i>P</i> , 1955
GLOCKLING, BERYL  Andrews W H Horner and Oxygen utilization of the perfused canine liver and its modification by adrenaline, acetylcholine and histamine  GLOSTER J  The effect of a carbonic anhydrase in the lens and in the ciliary body and iris of albino rabbits  and Perkins, E S Carbonic anhydrase in the lens and in the ciliary body and iris of albino rabbits  GLOVER T D  The effect of a short period of scrotal insulation on the semen of the ram  128, 77P, 1955  GLYN I M  Linked sodium and potassium movements in human red cells  Action of cardiac glycosides on red cells  Sodium and potassium movements in human red cells  Sodium and potassium movements in human red cells  Control J R  Codits, D A, Denton, D A, — and Wright, R D  Secretomotor mechanisms of the sheep's parotid gland (T)  Cotats D A Denton D A, — and Wright, R D  Secretion by the parotid gland of the sheep  and Zamus Eleanor J The influence of lowered body temperature on the action of certain drugs  (T)  Coffart M  and Ritchie J M The effect of adrenaline on the contraction of mammalian skeletal imuscle  The action of evisteamine on a sympathetic ganglion  Doxiadis, S 4 and Comparison of creatinine and inulin clearances in young children  Doxiadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Doxiadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Doxiadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Doxiadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Doxiadis, S 4 and Comparison of inulin and endogenous creatinine clearances in young children  Doxiadis S A and Comparison of inulin and endogenous creatinine clearances in young children  Doxiadis S A and Comparison of inulin and endogenous creatinine clearances in young children  Link B 454 1952  116 46P 1953			129, 49P, 1955
the perfused canne liver and its modification by adrenaline, acetylcholine and histamine  The effect of a carbonic anhydrase inhibitor on the intraocular pressure in rabbits and Perkins, E. S. Carbonic anhydrase in the lens and in the citiary body and iris of albino rabbits  GLOVER T. D. The effect of a short period of scrotal insulation on the semen of the ram.  GLYN I. M. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and potassium movements in human red cells.  GLOVER T. D. Linked sodium and selected muscle contraction of mammalian skeletal muscle.  The action of cysteamine on a sympathetic ganghon.  GLOVER T. D. D. Linked S. A. and Comparison of creatinine and multin clearances in voung children.  Doziadie, S. A. and Comparison of reatinine and multin clearances in voung children.  GLOVER T. D. C. Linked S. A. and Comparison of multin and endogenous creatinine clearances in voung children.  GLOVER T. D. Linked	17	Cole J and Effects of reserpin and ritalin on	
MITAOCULAR PRESSURE IN rabbits  and Perkins, E. S. Carbonic anhydrase in the lens and in the ciliary body and ins of albino rabbits  GLOVER T. D. The effect of a short period of scrotal insulation on the semen of the ram  GLYN I. M. Linked sodium and potassium movements in human red cells  GLYN I. M. Linked sodium and potassium movements in human red cells  GODING I. R. Coats, D. A., Denton, D. A., —— and Wright, R. D. Secretomotor mechanisms of the sheep's parotid gland (T)  Coats D. A. Denton D. A., —— and Wright, R. D. Secretomotor by the parotid gland of the sheep  GOFTZEE B. M. Coats, D. A. Denton D. A., —— and Wright, R. D. Secretomotor by the parotid gland of the sheep  and Zaimis Eleanor J. The influence of lowered body temperature on the action of certain drugs (T)  COFFART M. Coats J. M. The effect of adrenaline on the contraction of marmalian skeletal muscle  The action of evisteamine on a sympathetic ganglion  COLDITICH Doziadis, S. 4 and Companson of creatimine and inulin clearances in young children  COLDITICH Doziadis, S. 4 and Companson of inulin and endogenous creatimine clearances in young children  COLDITICH Andrey C. A simple method for reanimating ice cold rats and mice  COLDITICH I. MARCIS Cappa Arpad and Excitability length tension relation and kinetics of uterine muscle contraction in polytomoral extension to be prepared extension to propose at the prepared states.	GLOCKLING, BERYL	the perfused canine liver and its modification by	132, 522, 1956
GLOVER T D  The effect of a short period of scrotal insulation on the semen of the ram  Linked sodium and potassium movements in human red cells  Action of cardiac glycosides on red cells  Sodium and potassium movements in human red cells  Control I R  Coats, D A, Denton, D A, — and Wright, R D Secretion by the parotid gland of the sheep's parotid gland (T)  Coats D A Denton D A, — and Wright, R D Secretion by the parotid gland of the sheep  Goffzee B V  and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs  (T)  Coffait V  and Ritchie J M The effect of adrenaline on the contraction of mammalian sheletal muscle The action of cysteamine on a sympathetic ganglion  Coldficer  Ware after K  Doriadis, S 4 and Comparison of creatinine and inulin clearances in young children  Doriadis S A and Comparison of inulin and endogenous creatinine clearances in young children  Coldficer  Codall, Marcis  Corpolation Addrey U A simple method for reaninating ice cold rats and mice  116, 357, 1952 126, 16P 1954 117, 1955 129, 82P, 1955 120, 7P, 1955 129, 82P, 1955 120, 7P, 1955 120, 7P, 1955 121, 13 1956 121, 13 1956 122, 7P, 1955 123, 13 1956 124, 278, 1956 125, 7P, 1955 126, 16P 1955 127, 1955 128, 56P, 1955 129, 7P, 1955 129, 82P, 1955 120, 129, 7P, 1955 121, 13 1956 122, 7P, 1955 123, 13 1956 124, 278, 1956 125, 37, 1952 126, 16P 1954 127, 1955 128, 56P, 1955 129, 7P, 1955 129, 82P, 1955 120, 129, 7P, 1955 121, 13 1956 122, 7P, 1955 123, 13 1956 124, 278, 1956 125, 37, 1952 126, 16P 1954 127, 1955 128, 27, 1955 129, 7P, 1955 129, 82P, 1955 120, 129, 7P, 1955 121, 13, 13 1956 129, 7P, 1955 120, 7P, 1955 120, 7P, 1955 121, 13, 1956 121, 13, 13, 1956 122, 7P, 1955 123, 13, 13, 1956 125, 16P, 1955 126, 16P 1954 127, 1955 128, 1956 129, 7P, 1955 129, 82P, 1955 129, 82P, 1955 120, 16P 1954 120, 129, 7P, 1955 121, 13, 13, 1956 121, 13, 13, 1956 122, 13, 13, 13, 1956 123, 13, 13, 1956 124, 13, 13, 1956 125, 13, 13, 13, 1956 126, 16P 1954 127, 1955 128, 1956 129, 1955 129, 1955 129, 1955 129, 195	GLOSTER J	intraocular pressure in rabbits and Perkins, E. S. Carbonic anhydrase in the lens	
CLYN I M  Linked sodium and potassium movements in human red cells  Action of cardiac glycosides on red cells  Sodium and potassium movements in human red cells  Control I R  Coats, D A, Denton, D A, — and Wright, R D  Secretomotor mechanisms of the sheep's parotid gland (T)  Coats D A Denton D A, — and Wright, R D  Secretion by the parotid gland of the sheep  and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs  (T)  Coffrage B W  and Ritchie J M The effect of adrenaline on the contraction of mammalian skeletal muscle  The action of cysteamine on a sympathetic ganglion  Coldition  Were after S A and Comparison of creatinine and inulin clearances in young children  Doradit S A and Comparison of inulin and endogenous creatinine clearances in young children  Coldition  Codnil, Marcis  Corpolition A different contraction and kinctics of uterine muscle contraction and kinctics of uterine muscle contraction in relation to hyperocal action in relation to homeone in the contraction and kinctics of uterine muscle contraction in relation to hyperocal action to provide the contraction and kinctics of uterine muscle contraction and kinctics of uterine muscle contraction in milition and kinctics of uterine muscle contraction and kinctics of uterine muscle contraction in the process of the contraction and kinctics of uterine muscle contraction in the process of uterine muscle contraction and kinctics of uterine muscle contraction and company an		and in the ciliary body and iris of albino rabbits	130, 665, 1955
Action of cardiac glycosides on red cells Sodium and potassium movements in human red cells Sodium and potassium movements in human red cells Sodium and potassium movements in human red cells  GODING J R  Coats, D A, Denton, D A, —— and Wright, R D Secretomotor mechanisms of the sheep's parotid gland (T)  Coats D A Denton D A, —— and Wright, R D Secretion by the parotid gland of the sheep  GOFTZEE B V  and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs (T)  Coffair VI  and Ritchie J M The effect of adrenaline on the contraction of mammalian skeletal muscle The action of cysteamine on a sympathetic ganglion  Coldfined  Doxiadis, S 4 and Companson of creatinine and inulin clearances in young children Doxiadis S A and Companson of inulin and endogenous creatinine clearances in young children  Coldfined  Coldfined  And Smith Audrey U A simple method for reaminating ice cold rats and mice  I indlay J D and Arterio venous anastomoses in the perichondrium and skin of the ear of the Avrahire calf  Codall, Marcis  Csapo Arpad and Excitability length tension relation and kinetics of uterine muscle contraction in plation to hormosel extension.	GLOVER T D		128, 22 <i>P</i> , 1955
Action of cardiac glycosides on red cells Sodium and potassium movements in human red cells  GODING J R  Coats, D A, Denton, D A, —— and Wright, R D Secretomotor mechanisms of the sheep's parotid gland (T) Coats D A Denton D A, —— and Wright, R D Secretion by the parotid gland of the sheep  GOFTZEE B VI  and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs (T)  Coffait VI  and Ritchie J M The effect of adrenaline on the contraction of mammalian skeletal muscle The action of cysteamine on a sympathetic ganglion  Coldfined Varcaret K  Doziadis, S 4 and Comparison of creatinine and inulin clearances in young children Doziadis S A and Comparison of inulin and endogenous creatinine clearances in young children  Coldfined  Coldfined  Indiay J D and Arterio venous anastomoses in the perichondrium and skin of the ear of the Avrehire calf  Codall, Marcis  Capo Arpad and Excitability length tension relation and kinetics of uterine muscle contraction in relation and kinetics of uterine muscle contraction in relation and kinetics of uterine muscle contraction in relation to hormonal static.	GLYN I M		12( 0" D 10"
Godie, D. A., Denton, D. A., —— and Wright, R. D.  Secretomotor mechanisms of the sheep's parotid gland (T)  Coats D. A. Denton D. A., —— and Wright, R. D.  Secretion by the parotid gland of the sheep  Goffzee B. V.  and Zaimis Eleanor J. The influence of lowered body temperature on the action of certain drugs (T)  Coffait V.  and Ritchie J. M. The effect of adrenaline on the contraction of mammalian skeletal muscle  The action of cysteamine on a sympathetic ganglion  Coldfined  Variable, S. A. and Comparison of creatinine and inulin clearances in young children  Doxiadis S. A. and Comparison of inulin and endogenous creatinine clearances in young children  Coldfined  Coldfined  And Smith Audrey U. A simple method for realization and skin of the ear of the Avrshire calf  Coodall, Marcis  Csapo. Arpad and Excitability length tension relation and kinetics of uterine muscle contraction. In relation to hormonic status.	•	Action of cardiac glycosides on red cells Sodium and potassium movements in human red	128, 56 <i>P</i> , 1955
GOFTZEE B V  and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs (T)  129, 82P, 1955  120, 82P, 1955  120, 82P, 1955  1216, 357, 1952  126, 16P 1954  126, 16P 1954  127, 1952  128, 82P, 1955  129, 82P, 1955  120, 82P, 1955  120, 82P, 1955  121, 357, 1952  122, 82P, 1955  123, 1952  124, 1954  125, 16P 1954  126, 16P 1954  127, 1952  128, 1952  129, 82P, 1955  120, 16P 1954  120, 16P 1954  121, 16P 1954  122, 16P 1954  123, 1956  124, 1956  125, 1956  126, 16P 1954  127, 1952  128, 1956  129, 82P, 1955  129, 82P, 1955  126, 16P 1954  127, 1952  128, 1956  129, 82P, 1955  129, 82P, 1955  120, 16P 1954  120, 16P 1954  121, 16P 1953  122, 16P 1953  123, 1956  124, 1956  125, 1956  126, 16P 1955  127, 1952  128, 1956  129, 82P, 1955  129, 82P, 1955  126, 16P 1954  127, 1952  128, 1956  129, 82P, 1955  129, 82P, 1955  126, 16P 1954  127, 1952  128, 1956  129, 82P, 1955  126, 16P 1954  127, 1952  128, 1956  129, 82P, 1955  129, 82P, 1955  126, 16P 1954  127, 1952  128, 1952  129, 82P, 1955  126, 16P 1954  127, 1952  128, 1952  129, 82P, 1955  129, 82P, 1955  126, 16P 1954  127, 1952  128, 1952  129, 82P, 1955  129, 82P, 1955  126, 16P 1954  126, 16P 1954  127, 1952  128, 1952  129, 82P, 1955  129, 82P, 1955  126, 16P 1954  126, 16P 1954  127, 1952  128, 1952  129, 82P, 1955  129, 82P, 1955  129, 82P, 1955  120, 16P 1954  120, 16P 1954  120, 16P 1954  120, 16P 1954  121, 16P 1954  122, 196, 1956  123, 196, 1956  124, 196, 1956  125, 196  126, 16P 1954  126, 16P 1954  127, 1952  128, 1952  129, 82P, 1955  129, 82P, 1955  120, 196  120, 16P 1954  121, 16P 1954  122, 196  123, 196  124, 196  125, 196  126, 16P 1954  126, 16P 1954  127, 1952  128, 196  129, 196  120, 196  120, 196  120, 196  121, 196  122, 196  123, 196  124, 196  125, 196  126, 197  126, 197  127  128  128  129, 196  129  129  129  129  129  129  129	GODING J R	Coats, D A, Denton, D A, —— and Wright, R D Secretomotor mechanisms of the sheep's parotid gland (T) Coats D A Denton D A, —— and Wright, R D	129, 7 <i>P</i> , 1955
COLDTINCH  MARCARET K  COLDTINCH  Doziadis, S. 4 and Comparison of creatmine and inulin clearances in young children  Doziadis S. A and Comparison of inulin and endogenous creatmine clearances in young children  COLDTINCH  COLDTINCH  Doziadis, S. 4 and Comparison of inulin and endogenous creatmine clearances in young children  and Smith Audrey U. A simple method for reanimating ice cold rats and mice  118 454 1952  COLDTINCH  Audrey U. A simple method for reanimating ice cold rats and mice  132, 406, 1956  132, 406, 1956  Condall, Marcus  Comparison of inulin and endogenous creatmine and mice  132, 406, 1956  121 46P 1953  Comparison of the ear of the Avrehire calf  Comparison of creatmine and incline and comparison of inulin and endogenous creatmine clearances in young children  118 454 1952  132, 406, 1956  121 46P 1953	COLIZEE B A	and Zaimis Eleanor J The influence of lowered body temperature on the action of certain drugs	
COLDTINCH MARCARTT K  Doxiadis, S. 4 and Comparison of creatimine and inulin clearances in young children Doxiadis S. A and Comparison of inulin and endogenous creatimine clearances in young children  COLDTVIIG S. A  and Smith Audrey U. A simple method for reanimating ice cold rats and mice  118 454 1952  CODALL  Indlay J. D and Arterio venous anastomoses in the perichondrium and skin of the ear of the Avrehire calf  Corpolate, Marcus  Corpolate,	COFFART M	and Ritchie J M The effect of adrenaline on the contraction of mammalian skeletal muscle	116, 357, 1952
Coldiving S A and Smith Audrey U A simple method for reanimating see cold rats and mice 132, 406, 1956  Coodall Findlay J D and Arterio venous anastomoses in the perichandrium and skin of the ear of the Avrshire calf 121 46P 1953  Coodall Marcis Coop Arpad and Excitability length tension relation and kinetics of uterine muscle contraction in relation to hormonal attains.		Doxiadis, S. 4 and Comparison of creatinine and inulin clearances in young children.  Doxiadis S. A. and Comparison of inulin and endogenous creatinine clearances in young	116 50 <i>P</i> , 1952
(OODALL Handlay J D and Arterio venous anastomoses in the perichondrium and skin of the ear of the Avrshire calf  (OODALL MARCLS Composition and kinetics of uterine muscle contraction in relation to hormonal attention.	Coldivito 8 4	and Smith Audrey U A simple method for re-	
relation and kinetics of uterine muscle contrac	1 NYTANKI	I indiay J D and Arterio venous anastomoses in the perichondrium and skin of the ear of the Avrshire calf	
	COODALL, MARCE	relation and kinetics of uterine muscle contract	

GOODWIN, R F W	Division of the common mammals into two groups according to the concentration of fructose in the blood of the foetus  The distribution of sugar between red cells and plasma variations associated with age and	<b>132,</b> 146, 1956
Göpfert, H F	species	<b>134</b> , 88, 1956
GOPPERT, II F	The measurement of local potential gradients in the spinal cord (T)	<b>122</b> , 2 <i>P</i> , 1953
,,	Steady potentials and slow potential changes in the spinal cord	<b>122</b> 20 <i>P</i> , 1953
"	Slow potentials in the dorsal parts of the isolated spinal cord and their relation to dorsal root potentials	<b>133</b> 433, 1956
Gordon, A H	Davies, Beryl M A, —— and Mussett, Marjorie V A plasma calcium assay for parathyroid hormone, using parathyroidectomized rats Davies, Beryl M A, —— and Mussett, Marjorie V	<b>125</b> 383, 1954
	A mouse urine phosphate assay for parathyroid hormone with certain applications	130, 79, 1955
Gordon, G	and Wright, T A An animal holder containing a stereotaxic unit (T)  Gaze, R M and Responses of single thalamic units	118, 21 <i>P</i> , 1952
"	to stimulation of the skin and of cutaneous nerves	118, 48 <i>P</i> , 1952
"	Gaze, R M and Ipsilateral and contralateral representation of cutaneous sense in the cat's thalamus (T)	<b>126</b> , 37 <i>P</i> , 1954
"	and Phillips, C G Action potentials from single sensory fibres in the dorsal columns and from single cells in the gracile nucleus of the cat (T)	<b>129</b> , 7 <i>P</i> , 1955
Gore, Marion B R	and MacIlwain, H Effects of some inorganic salts on the metabolic response of sections of mam malian cerebral cortex to electrical stimulation	<b>117</b> , 471 1952
Gould, A H	Acland, J D and Normal variation in the count of circulating eosinophils in man	133, 456, 1956
GOULD, D W	Korotkoff sounds (T)	116 10P, 1951
,	Brewin E G, — Nashat F S and Neil, E Changes in structure and function of the liver as a result of hypothermia combined with occlusion	
	of both venae cavae	128 45P, 1955
,,	, Hsieh, A C L and Tinckler, L F The be haviour of the isolated water buffalo ureter	129 425 1955
"	Hsieh A C L and Tinckler, L F The behaviour of the intact ureter in dogs rabbits and rats	129 436, 1955
"	Hsieh A C L and Tinckler L F The effect of posture on bladder pressure	129 448, 1955
GOULD, R P	and Hobbiger F Experimental demyelination in chickens (T)	130 33 <i>P</i> 1955
,	Effect of hypothermia and occlusion of venae cavae on liver structure (dog) (T)	130 36P 1955
Gowans, J L	An apparatus for the continuous intravenous re infusion of lymph and living lymphocytes into rats with thoracic duct fistulae (T)	133 1 <i>P</i> 1956
GRAFF, JEAN A E	Ikin Elizabeth W, Lehmann H Mourant A E, Parkin, Dorothy M and Wickremasinghe R L Haemoglobin E and blood groups in the Veddas	<b>127</b> 41 P, 1954

GRAFSTEIN, BEENICE	Burns, B Delisle and The function and structure of some neurones in the cat's cerebral cortex	118, 412, 1952
GRAHAM, G R	The partitioning of coronary flow the coronary sinus fraction	128, 19 <i>P</i> , 1955
,	Ead, H W and A QRS triggered stimulator for producing extra systoles in mammalian hearts and Joels, N The different effects on ventricular	130, 38P, 1955
,,	depolarization and repolarization of two methods of producing hypothermia in the dog	130, 39 <i>P</i> , 1955
,	Effects of temperature on the rate of transmission in different parts of the dog's heart (T)	130, 53 <i>P</i> , 1955
Graham, J D P	The effect of calcium and potassium on the action of histamine on guinea pig ileum	116, 36 <i>P</i> , 1951
,	and Lewis, $G$ $P$ Relationship between anti- adrenaline and anti-histamine activity in a series of $\beta$ haloethyl amines	116, 37 <i>P</i> , 1951
•	and Lewis, G P Anti adrenaline and antihistamine action of ethyleneumine	118, 12 <i>P</i> , 1952
	and James Dinah M The gly caemic response of rabbits to L adrenaline and L-noradrenaline and the effect thereon of dimercaprol	118, 479 1952
GRAHAM, X MCC	Blaxter K L, — and Rool, J A F Respiration calorimetry with farm animals	121, 39 <i>P</i> , 1953
GRANAAT D	The spleen in the regulation of the arterial blood pressure	122, 209 1953
GRANIT R	and Wirth A A scotopic blue shift obtained by electrical measurements of flicker resonance	122, 386, 1950
***	Eldred E, — and Merton P A Supraspinal control of the muscle spindles and its significance Eldred, E, — Holmgren, B and Merton, P A	122, 498, 1953
	Proprioceptive control of muscular contraction and the cerebellium  Holmgren B and Merton, P A The two routes	123, 46 <i>P</i> , 1953
	for excitation of muscle and their subservience to the cerebellum	120 010 1022
	Reflex rebound by post tetanic potentiation Tem	130, 213, 1955
•	poral summation—spasticity and Phillips C G Two types of inhibition of	131, 32 1956
	cerebellar Purkinje cells  Henatsch H D and Steg, G Differentiation of tonic from phasic extensor motoneurones by	132 58P, 1956
	post tetanic potentiation and Phillips C G Excitatory and inhibitory	133, 12 <i>P</i> , 1956
	processes acting upon individual Purkinje cells of the cerebellum in cats	133, 520 1956
GRANT R T	4rmin, J —— Pels H and Recre, E B The plasma cell and blood volumes of albino rabbits as estimated by the dve (T 1824) and 3-P marked	
	cell methods  Armin J and The arters of the dependent ated robbyte	116 50 1053
•	car as a sensitive pharmacological test object (With two appendices by J. H. Benson)  4rmin J.— Thompson R. H. S. and Tichner A. An explanation for the hard-tested according	121, 593 1953
	A An explanation for the heightened vascular mactivity of the denervated rabbit s ear	121, 603, 1953

GRANT, R T	Armin, J and Method for demonstrating and assaying the vasoconstrictor activity of rabbit's blood and for following the changes in this activity resulting from various stimuli (T)  Armin, J and Vasoconstrictor activity in the rabbit's blood and plasma	123, 51 <i>P</i> , 1954
GRAY, A T	Ferguson, I D and An optical manometer for	
"	recording pressures within the urinary bladder Ferguson, I D and Acute decerebration in the	<b>121</b> , 25 <i>P</i> , 1953
a	grey hound	<b>122</b> , 69 <i>P</i> , 1953
GRAY, J A B	Feldberg, W, — and Perry, W L M A method of investigating the effects of close arterial in jections on spinal cord activity.  Douglas, W W and The excitant action of acetyl choline and other substances on cutaneous sensory.	<b>117</b> , 1 <i>P</i> , 1952
	pathways and its prevention by hexamethonium and D tubocurarine  Feldberg, W, —— and Perry, W L M Effects of	<b>119</b> , 118, 1953
**	close arterial injections of acetylcholine on the activity of the cervical spinal cord of the cat	119, 428, 1953
"	and Sato, M Potentials from a Pacinian corpuscle (T)	120 35P, 1953
,	and Sato M Receptor potentials in Pacinian corpuscles	122, 27 <i>P</i> , 1953
,	and Sato, M Properties of the receptor potential in Pacinian corpuscles	122, 610 1953
,	and Ritchie, J M Effects of stretch on single myelinated nerve fibres	124 84, 1954
"	and Sato, M The movement of sodium and other ions in Pacinian corpuscles	129 594, 1955
**	de Molina, A Fernandez and Methods for in	·
"	vestigating spinal cord activity (T) Diamond, J, Featherstone, R, — and Inman, D R	132, 25 <i>P</i> , 1956
"	The perfusion of a Pacinian corpuscle  Diamond, J,——and Sato, M The site of initiation	132, 27 <i>P</i> , 1956
	of impulses in Pacinian corpuscles de Molina A Fernandez and Spinal cord potentials	133, 54, 1956
,,	due to stimulation of cutaneous nerves	134, 9P, 1956
Grayson, J	and Johnson, D H The effect of adrenalme on liver blood flow in the rat and the rabbit	116 25P 1951
**	distribution and liver blood flow in the rat	116 189, 1952
,,	Ginsburg M, — and Johnson, D H The nervous regulation of liver blood flow	117, 74P, 1952
,	Ginsburg, M and Contributions to liver blood flow of the portal vein and hepatic artery	118 16P, 1952
,,	Internal calorimetry in the determination of thermal conductivity and blood flow	118 54, 1952
**	and Haigh, A L The standardization of recorders used in internal calorimetry	<b>120</b> 2 <i>P</i> , 1952
,	and Johnson, D H The effect of adrenalme and nor	120, 73, 1953
,	Ginsburg, M and Factors controlling liver blood flow in the rat	<b>123</b> , 574 1954
	and Haigh A L Internal calorimetry—an auto	124, 49 P, 1954
	Work and efficiency—a class experiment (T)	<b>124</b> , 51 P, 1954

	IMPHA OF HOUSE	
Grayson, J	Carlyle, A, Field, E J, — and Rogers, A F Blood flow reactions in the brain	124, 56P, 1954
	and Haigh, A L Blood flow reactions in the skin of the upper arm	124, 57P, 1954
**	Carlyle, A and Blood pressure and the regulation of brain blood flow	127, 15 <i>P</i> , 1954
,	and Mendel, D Temperature responses in rat liver and abdomen following cold exposure	129, 63P, 1955
**	Carlyle, A and Factors involved in the control of cerebral blood flow	133, 10, 1956
,	and Mendel, D The distribution and regulation of temperature in the rat	133, 334, 1956
GREAVES, D P	and Perkins, E S Methods of measuring intra- ocular pressure (T) Arden, G B and The reversible alterations of the	116, 52 <i>P</i> , 1952
**	electroretinogram of the rabbit after occlusion of the retinal circulation	133, 266, 1956
**	and Perlins $E$ $S$ The 7th cranial nerve and intra- ocular pressure	134, 393, 1956
GRFAVES, J P	and Scott, Patricia Variation with age in the haemo globin content and packed cell volume of blood from healthy Littens (T)	133, 72 <i>P</i> , 1956
GRECO F DEL	see DEL GRECO, F	
GREEN J H	Ead H W, — and Neil E A comparison of the effects of pulsatile and non pulsatile pressures on the carotid sinus (T)  Dule Helen N — and Neil E Carotid chemo ceptor activity during inhalation of carbon	117, 32 <i>P</i> , 1952
	monoxide  Ead, H W, —— and \(\lambda ell, E\) A comparison of the effects of pulsatile and non pulsatile blood flow through the carotid sinus on the reflexogenic	117, 63P, 1952
,	activity of the sinus baroceptors in the cat  Dule Helen A, —— and Neil, E Carotid chemo	118, 509, 1952
	ceptor impulse activity during inhalation of carbon monoxide mixtures  Campbell E J M and The mechanics of breathing studied by simultaneous spirometry, electromy ography and recording of the intragastric	118, 520, 1952
	pressure (T) and Neil, E Impulse activity in smoaortic nerves	119, 31 P, 1952
	during haemorrhage (T) A multichannel cathode ray tube unit for photo	119, 31 P, 1952
	graphic recording  Campbell, E. J. M. and The expiratory function of the abdominal muscles in man. An electro	119, 32P, 1952
	my ographic study	120, 409, 1953
	A new paroceptor area in the cat  Campbell E J V and The variations in intra abdominal pressure and the activity of the abdominal muscles during breathing a study in	122, 70P, 1953
	The effect of mean pressure and rate of pulsation on the impulse activity of the common caretic	122, 282, 1953
	and Veil E The intrinsic musculature of the	444
	larvax in the cat (T)	123 13P, 1953

	000111111111111111111111111111111111111	
GREEN, J H	Further baroceptor areas associated with the right common carotid artery in the cat	123, 41 P, 19 <sub>0</sub> 3
,,	Boss, J and Nervous structures in recently described baroceptor areas of the right common	•
	carotid artery in the cat	124, 43P, 1954
,,	A manometer	125, 4P, 1954
,	Boss, J and The modification of the arterial wall	
•	in baroceptor areas	125, 42P 1954
,,	Campbell, E J M and The behaviour of the	,
,,	abdominal muscles and the intra abdominal	
	pressure during quiet breathing and increased	
	pulmonary ventilation A study in man	127, 423, 1955
••	and Neil, E The respiratory function of the	,,
"	laryngeal muscles	129 134, 1955
	Glasster, D H and Action potentials in common	
"	carotid artery baroceptors (T)	130 32P 1955
	and Howell, J B L Correlation of respiratory air	
,,	flow using a new pneumotachograph, with	
	intercostal muscle activity	130, 33P, 1955
	Blood pressure 'follower' for continuous blood	
"	pressure recording in man	130 37P, 1955
	and McCubbin, J W Baroceptor activity in	,
,,	hypertension (T)	132, 19P, 1956
GREENBAUM A L	Dicker S E and The degree of inactivation of	
GREENBAUM A L	vasopressin by the kidney and the liver of rats	124, 35P 1954
	, Greenwood, F C and Harkness, R D Glutamic	121, 001
**	dehydrogenase and glutamic aspartic trans	
	aminase in regenerating liver of the rat	125, 251 1954
	Dicker, S E and The degree of inactivation of the	120, 201
"	antiduretic activity of vasopressin by the	
	kidneys and the liver of rats	126 116, 1954
	Dicker S E and Preliminary study of the	,
**	mechanism of inactivation of vasopressin by	
	kidney homogenates	127, 39P, 1954
,,	Dicker, S E and Inactivation of the antidiuretic	•
"	activity of vasopressin by tissue homogenates	132, 199 1956
GREENFIELD,	and Shepherd J T Measurement of the blood flow	
A D M	in the umbilical cord of the foetal guinea pig (T)	118 56P, 1952
	, Shepherd J T and Thompson, I D A class experi	,
**	ment on hand calorimetry (T)	118, 56P, 1952
,,	Equipment for human limb plethysmography (T)	118, 56P, 1952
,,	and Shepherd, J T Cardiovascular reflexes in the	
•	foetal guinea pig	118 68P, 1952
,,	Duff, F and Thompson, I D The response to	
	acetylcholine and histamine of the blood vessels	
	of the human hand and forearm (T)	118, 69P, 1952
1)	Duff, $F$ — Shepherd $J$ $T$ and $Thompson$ , $I$ $D$	
	A quantitative study of the response to acetyl	
	choline and histamine of the blood vessels of the	1059
	human hand and forearm	<b>120</b> 160, 1953
,,	and Shepherd, J T Cardiovascular responses to	120 520 1053
	asphyvia in the foetal guinea pig	120, 538, 1953
,,	Duff, F, —, Shepherd, J T, Thompson, I D	
	and Whelan, R F The response to vasodilator	
	substances of the blood vessels in fingers im	121, 46, 1953
	mersed in cold water	121, 70, 1000
•	Gibson, Q H —— and Thompson, I D A simple gas analysis apparatus for student use	122, 7P, 1953
	Res erreit are abharactes for accident ago	A,, ·

Garreno, 1 D M.	Engl. F., and Wheler, P. F. Verrellstering following amount gas embrism	122 35P, K-L
<del>,-</del>	i simple water-filed plethysinograph for the hard or foresem with a imprastive control	123 HP, 1174.
<del></del>	ord Potterson, G C Response of the freeze blood vessels to very light transmit presence ord Potterson, G C The effect of slight venous	133, TOP. E.M.
<del>y=</del>	distension on the apparent rate of blood inflow to the forearm	124. 45P. I' 34.
••	Hericle D McH. and Paters G. C. Pro- long of dilection of the fivesam libratives after a large moreous in transmial presents	125, 41P, 1654.
<del>r•</del>	ord Paintern, G.C. Bee took of the blood vessels of the human fursame to morecast in transmissi	125, N 1654
<del></del>	presence ord Paterior, G.C. The effect of small degrees of venous distension on the appearant rate of his of milow to the forestim	125 ST, 1134
~	Colu., D. R. and. Heat elementon from the hands during I cal exporure to substitutephene pres-	121, 3-P. 1155
<del></del>	and Primary & C. The cape my of the blood received in the forming forward	120, StP, 19
<del></del>	Colu D E and The reactions of the bland translation of the hand during increases in transmission presents	131, 277, 197°
-	ers Posterier of C On the capa are and dis- tensibility of the blood vessele of the house foreasts	131, 2nd 1936.
GARRYTAND P	Feldery VI and Robert of Entermine from the perform decree them to \$45.50	133 F3P, 1974.
GRIENTING. F (	Grant form, A. E.,—— and Honorus E. D. Gli- tains of cyclic grown and glitamic expansion teansaminate in regressating lives of the rai	125, FL, 194.
GRICOTT P I	fracture exerction (T)	115, 14P, 14-2
~	Paterator secretion (Film) (T)	125, 15P, 19.14
~	Properation and properties of monastrone	125 Cap. 1954.
~	A new method for the preparation of incommone	123. IL., LETA
~	Ilutor end serretory mhibiture of diodenal origin in transplanted gastric provides	132.67P, 15-6.
Grower H D	Forter in H V and Pire. V V. Electrical articles of the continuous and in present for recogning	
~~	for an annual size of source and the second state of the second state of the second se	
	A w presences and tenents (I)  Irror I P and Ecotorial E. V. The me of the orthorous management by measuring the heart super	HE SP, IC-A
Comme os L. H	has presented and terror to (T)  Irror I P and Easterfal E. V. The time of the orthorough the terror to a time strong the beauty	121, 2: P, 1: 70.
Contract of the Contract of th	I we present a such tenen to (I)  Irror I P and Easterial H. V. The may of the orthogener manufactor is a measuring the heart rate  India; or D J i and i simple electrical method for measuring a stollo blind presents in the	121, EP, 1070.

costes fled to mead principal configure

Green, J H	Further baroceptor areas associated with the right common carotid artery in the cat	, 123, 41 P, 1953
"	Boss, J and Nervous structures in recently described baroceptor areas of the right common	
,,	carotid artery in the cat A manometer	124, 43 <i>P</i> , 1954 125, 4 <i>P</i> , 1954
"	Boss, J and The modification of the arterial wall	
	in baroceptor areas $Campbell, E \ J \ M \ and The behaviour of the$	125, 42P 1954
"	abdominal muscles and the intra abdominal pressure during quiet breathing and increased pulmonary ventilation. A study in man	<b>127,</b> 423 1955
,,	and Neil E The respiratory function of the laryngeal muscles	<b>129,</b> 134, 1955
"	Glassier, D H and Action potentials in common carotid artery baroceptors (T)	130 32P 1955
**	and Howell, J B L Correlation of respiratory air flow using a new pneumotachograph, with	440 00 B 10 F
	intercostal muscle activity  Blood pressure 'follower' for continuous blood	130 33P, 19 <sub>0</sub> 5
,,	pressure recording in man  and McCubbin, J W Baroceptor activity in	130, 37P, 1955
,,	hypertension (T)	<b>132</b> , 19 <i>P</i> , 1956
GREENBAUM, A L	Dicker S E and The degree of inactivation of vasopressin by the kidney and the liver of rats	124, 35 <i>P</i> , 1954
,	, Greenwood, F C and Harkness, R D Glutamic dehydrogenase and glutamic aspartic trans	
,,	aminase in regenerating liver of the rat  Dicker, S E and The degree of mactivation of the	<b>125</b> 251 1954
	antidiuretic activity of vasopressin by the kidneys and the liver of rats	<b>126</b> 116, 1954
,,	Dicker S E and Preliminary study of the mechanism of inactivation of vasopressin by kidney homogenates	127, 39 <i>P</i> , 1954
,,	Dicker, S E and Inactivation of the antidiuretic	
	activity of vasopressin by tissue homogenates	132, 199, 1956
GREENFIELD, A. D M	and Shepherd, J. T. Measurement of the blood flow in the umblical cord of the foetal guinea pig (T)	118 56P, 1952
"	, Shepherd, J T and Thompson I D A class experiment on hand calorimetry (T)	118, 56P, 1952
,	Equipment for human limb plethysmography (T)	118 56P, 1952
,	and Shepherd J T Cardiov ascular reflexes in the foetal guinea pig	118 68P, 1952
,	Duff, F, — and Thompson, I D The response to	110 001,101
·	acetylcholine and histamine of the blood vessels of the human hand and forearm (T)	118 69P, 1952
<b>,,</b>	Duff, F —, Shepherd J T and Thompson I D  A quantitative study of the response to acetyl	118 097, 1802
	choline and histamine of the blood vessels of the human hand and forearm	120 160, 1953
,,	and Shepherd, J T Cardiovascular responses to asphysia in the foetal guinea pig	120, 538, 1953
,,	Duff, F, —, Shepherd, J T Thompson I D and Whelan, R F The response to vasodilator	
	substances of the blood vessels in fingers im mersed in cold water	121 46 1953
,,	Gibson Q H, — and Thompson, I D A simple gas analysis apparatus for student use	122, 7P 1953

	INDEA OF HOLDON	
Hagens, W A.	740 1821 1680(1002 of 1710(10)207 (7)	129, 40 <i>P</i> , 1955
Hagiwara, S	and Watanabe, A The effect of tetraethyl am monum chloride on the muscle membrane examined with an intracellular microelectrode Cohen, M J, —— and Zotterman, Y Impulse pattern of taste (T)	129, 513, 1955 129, 43 <i>P</i> , 1955
Haigh, A. L.	Grayson, J and The standardization of recorders	120, 2 <i>P</i> , 1953
•	Grayson J and Internal calonmetry—an auto matic recorder Grayson, J and Blood flow reactions in the skin	124 49P, 1954
**	of the upper arm	124, 57P, 1954
Наісн С Р	and Schnieden H Virtual deuterium oxide space (total body water) in normal and protein deficient rats	131, 377, 1956
HAIST R E	Dorchester, J E C and A method of secretm assav  Dorchester J E C and The secretm content of the intestine in normal and hypophysectomized	118, 182, 1952
	rats	118, 188, 1952
,	Dorchester J E C and The effect of anterior pituitary extracts, desiccated thyroid, growth hormone preparations and ACTH on the extractable secretin of the intestines of hypophysectomized and intact rats	119, 266, 1953
Hale, A J	Andrew A M and An apparatus for freeze drying tissues for histochemical investigation.  Optical retardations of human red blood corpuscles Ferguson I D —— and Ramsay, A G The amount of colloid in the thyroid glands of guinea pigs	121, 36 <i>P</i> , 1953 125 50 <i>P</i> , 1954 126, 48 <i>P</i> , 1954
Hale, J F	McDonald, D A and Womersley, J R Velocity profiles of oscillating arterial flow, with some calculations of viscous drag and the Reynolds number  McDonald D A, Taylor, M G and Womersley J R The counter chronometer method for recording pulse wave velocity	128, 629, 1955 129, 27 <i>P</i> , 1955
HALL, D 4	Reed R and Tunbridge, R E Morphological studies on normal and pathological connective tissue (T)	
HALL, J E	and Anox, J & C Fibrillation in the isolated rat- diaphragin preparation after deneration and Knox J & C Recording of fibrillation	116, 29 <i>P</i> , 1951
	potentials in isolated rat diaphragm after denervation (T) and Knox J A C Some effects of ions and of drugs on the spontaneous fibrillation of denervated muscle in ritro	123, 2 <i>P</i> , 1953
HALL, KATHLEE	The symphysis pubis in mice in which programs	123, 9P 1953
	progesterone alone or with oestradiol and relaxing the effect of different decalcifiers on subsequent staining of bone cartillars and connective terms.	134 3 <i>P</i> 1956
	with the metachromatic die Toluidine blue (T	) 134, 6 <i>P</i> , 1956

GRUNDY, H F	and Howarth, $F$ General pharmacology of cenanthotoxin	129, 79 <i>P</i> , 1955
GRUTTA, G LA	see La Grutta, G	
GUALTIEROTTI, T	Inhibition and excitation in spinal reflex activity. The potential level of the spinal roots during	<b>117,</b> 401, 1952
	central inhibition and excitation Synchronization of action potentials in the spinal	<b>118, 36</b> 1 1952
,,	frog	<b>121,</b> 106, 1953
,,	Stimulation of the cerebral cortex with electrodes applied outside the skull	122, 17P, 1953
,,	and Paterson, A S Electrical stimulation of the unexposed cerebral cortex	<b>125,</b> 278 1954
,,	Variations in the frog s spinal reflexes caused by the action on the brain of large doses of caffeine	128, 320, 1955
21	The contribution of spinal centres to the action of caffeine on frog's spinal reflexes	<b>128,</b> 326, 1955
GUELRE, R	and Keen, $J$ A study of the movements of the auditory ossicles under stroboscopic illumination	116, 175, 1952
Gunning, A J	Armitage, A K, Burn, J H and Method of studying ventricular fibrillation in the isolated heart (T)	<b>133</b> , 6 <i>P</i> , 1956
,,	Armstage, A K, Burn, J H and Factors af fecting ventricular fibrillation	133, 62P 1956
Gunter, R	An apparatus for testing visual discrimination in cats	116, 45P, 1952
,,	The spectral sensitivity of dark adapted cats	118 49 P, 1952
**	The spectral sensitivity of dark adapted cats	118, 395, 1952
, _	The spectral sensitivity of light adapted cats	<b>123</b> , 409, 1954
GUTTMANN, L	Cunningham, D J C, —, Whitteridge, D and Wyndham, C H Cardiovascular responses to bladder distension in paraplegic patients  Cooper, K E, Ferres, Helen M and Foot blood flow changes occurring when the body tempera	<b>121,</b> 581, 1953
	ture is raised in the chronic spinal man	132, 11P 1956
HABGOOD, J S	Antidromic impulses in the dorsal roots	<b>121,</b> 264, 1953
HADFIELD, J W	A simple method of indelible marking of glassware (T)	128, 63 <i>P</i> , 1955
HAGEN, P	Blaschlo, H, — and Welch, A D The way	
	adrenalme is held by cytoplasmic granules of the adrenal medulla (T)	120, 58P, 1953
**	The distribution of adrenaline and noradrenaline in ox adrenal medulla	123, 53P, 1953
**	Blaschko, H, —— and Welch, A D Observations on the intracellular granules of the adrenal medulla	129, 27, 1955
27	The distribution of cholinesterase in the chrom affine cell	129, 50 1955
HAGINS, W A	and Rushton, W A H The measurement of rhodopsin in the decerebrate albino rabbit	120 61P, 1953
"	and Rushton, W A H Measurement of the rhodopsin density in the eye (T)	122, 9 <i>P</i> , 1953
,,	The photosensitivity of mammalian rhodopsin	126, 37 <i>P</i> , 1954
,,	The quantum efficiency of bleaching of rhodopsin in situ	<b>129,</b> 22 <i>P</i> , 1955

Наммочр, Р Н	The influence of prior instruction to the subject on an apparently involuntary neuro muscular response	132, 17 <i>P</i> , 1956
Hance, A J	Bradley, P B and The effect of chlorpromazine on the electrical activity of the brain of the conscious cat  Bradley P B and The effects of intraventricular injections of p lysergic acid diethylamide (LSD 25) and 5 hydroxytryptamine (serotonin) on the electrical activity of the brain of the conscious cat	129, 50 <i>P</i> , 1955 132, 50 <i>P</i> , 1956
HANCOCK, J R	and Nasmyth, P 4 The effect of evaporation on temperature control of the isolated perfused heart	133 29 <i>P</i> , 1956,
HANCOT N M.	Human blood cells (T)	122, 10P, 1953
HANDFORTH C P	The use of Telcothene tubing as an optical cuvette for blood oximetry (T)  A rapid photoelectric method of measuring the oxygen saturation of small blood samples	116 3P 1951 120 43P, 1953
HANDLER J J	The foetal circulation and its changes at birth in some small laboratory animals	133 202 1956
HARDING H F	Cort, J H and An mexpensive precision stereo taxic instrument	123, 15 <i>P</i> , 1953
Hardista R M	and Stacey R S The concentration of 5 hydroxy tryptamine in human blood and its abcorption by platelets and Stacey, R S 5 hydroxytryptamine in normal	<b>129</b> , 24 <i>P</i> , 1955
	human platelets	130, 711, 1955
HAPDWICE D C	Geringer E and Changes in skin histamine after remote injury Age changes in the histamine content of rat skin	119, 410, 1953 124, 157, 1954
Hardi Nargaret H	Biggers J D Claringbold, P J and The action of cestrogens on the vagina of the mouse in tissue culture	131, 497, 1956
HARKNESS MARCAPET L R	and Harkness, R D Further observations on collagen in the liver of the rat after partial hepatectomy	
	and Harkness R D Collagen in the reproductive tract of the rat during pregnancy and lactation	120, 6 <i>P</i> 1953 120 7 <i>P</i> , 1953
	and Harkness R D Further observations on collagen in regenerating liver of the rate and Harkness, R D The collagen content of the	123 482 1954
	reproductive tract of the rat during pregnance and lactation and Harkness R D The collagen content of the	123 492 1954
	mammary gland of the rat during pregnancy and lactation  Harkness R D and Santler, Joyce E Changes in	124 32P, 1954
	the collagen content of the thyroid in rats treated with thiouracil and Harkness R D The relation of collagen content	125, 51, 1954
	of the liver to body weight in the rat  Harkness R D and UcDonald D A The collagen and clastin content of the arterial wall	125, 447, 1954
	content of the arterial wall	127, 33 P, 1954

HALL, KATHLEEN	Maintenance of pregnancy, parturation and rearing of litters in mice ovariectomized and injected with progesterone, oestradiol and relaxin	<b>134</b> 17 <i>P</i> , 1956
HALL, P F	and Myant, N B Passage of exogenous thyroxine and of iodide between mother and foetus in pregnant rabbits	<b>133</b> , 181, 1956
HALL, R A	and Parkes, M W The effects of drugs upon neuro muscular transmission in the spinal guinea pig (T) and Parkes, M W The effect of drugs upon neuro muscular transmission in the guinea pig	117, 2 <i>P</i> , 1952 122, 274, 1953
HALL, W L	Krogh spirometer for students' use, constructed in Perspex (T)	<b>125</b> , 14 <i>P</i> , 1954
HALLIDAY, A M	and Redfearn, J W T The effect of ischaemia on finger tremor and Redfearn, J W T An analysis of the frequencies of finger tremor in healthy subjects	123, 23 <i>P</i> , 1953 134, 600 1956
HALLPIKE, C S	Byford, G H, — and Hood, J D A new type of rotating chair for the investigation of semi circular canal function  Best, C, Bolam, R and A new head holder for rabbits	123, 22 <i>P</i> , 1953 123, 22 <i>P</i> , 1953
HALPERN, B N	Benacerraf, B, Biozzi, G, Cuendet, A and Influence of portal blood flow and of partial hepatectomy on the granulopectic activity of the reticulo endothelial system	128, 1, 1955
Hamdi E A " "	Downman, C B B and Cerebral cortical potentials and afferent volley components on splanchme nerve stimulation (T) and Whittendge, D The projection of the retina on the superior colliculus (T) and Whittendge, D The representation of the retina on the optic lobe of the pigeon and the superior colliculus of the rabbit and goat	116, 3 <i>P</i> , 1951 118, 5 <i>P</i> , 1952 121 44 <i>P</i> , 1953
Hamilton, M	, Pickering, G. W. Roberts, J. A. F. and Sowry, G. S. C. The relationship of arterial pressure to age in a sample of the general population (T)	122, 37 <i>P</i> , 1953
Hamilton, W J	and Harrison, $R$ J The vascularization of the placentomes in the Cervidae (T)	119 6P, 1952
HAMLEY, E J	Contribution of anaesthetics to the change in breathing and heart rates due to vagotomy in the rat Perfusion of the isolated rat heart	130 54 <i>P</i> , 1955 134, 4 <i>P</i> , 1956
HAMLYN L H	Cragg, B G, Evans, D H L and Chicken's optic tectum histological structure  Cragg, B G and Chicken's optic tectum electrical responses  Cragg, B G and Action potentials of the pyramidal neurones in the hippocampus of the rabbit	120, 51 <i>P</i> , 1953 120 52 <i>P</i> , 1953 129 608 1955
Hammond P H	Involuntary activity in biceps following the sudden application of velocity to the abducted forearm Sensitive accelerometers for work on muscular control	127, 23 <i>P</i> , 1954 132 9 <i>P</i> , 1956

HARENESS R D	Harkness, Margaret L R, — and Moralec,	
III.	Brenda E Effect of hormones on the coungen	128, 16 <i>P</i> , 1955
	content of the rat's uterus and Luck C P A simple and sensitive writing	120, 101 , 1000
7	lever for students use	128, 32P, 1955
	and Moralee, Brenda E The disappearance of col	
•	lagen from the rat's uterus during post partum	100 FOD 10FF
	involution	128, 50P, 1955
,	Harkness, Margaret L R and The growth of collagen in the foetus, placenta and foetal mem	
	branes of the rat	128 225, 1955
	Harlness, Margaret L R and Changes in the	
	foetal membranes during pregnancy in the rat	129, 78P, 1955
77	Harlness Margaret L R and Changes in the properties of the uterine cervix of the rat in	
	properties of the dierme cervix of the lat in	131, 19 <i>P</i> , 1956
	Harkness Margaret L R and The effect of preg	,,
•	nancy and lactation on the collagen content of	
	the mammary gland of the rat	132 476, 1956
•	Harlness, Margaret L R and Changes in the physical properties and in the collegen and	
	hexosamine contents of the foetal membranes	
	during pregnancy in the rat	132, 482, 1956
	Harkness, Margaret L R and The distribution of	
	the growth of collagen in the uterus of the	122 102 1020
	pregnant rat and Moralee, Brenda E The time course and route	132, 492, 1956
"	of loss of collagen from the rat s uterus during	
	post partum involution	<b>132,</b> 502, 1956
	Harlness, Margaret L R and The collagen content	
	of the liver in pregnancy and lactation	134, 135, 1956
Harpep A A	Duncan P R Evans D G —, Howat, H T	
	Oleesly, S., Scott, J. E. and Varley, H. The use of the cholecystokinetic agent in preparations of	
	pancreozymin to study gall bladder function in	
	man	121, 19P, 1953
	Blair, E L - and Lale, H J The pepsin	•
	stimulating effects of gastric and intestinal extracts in cats	131 000 1000
	hidd C and Scratcherd, T Vago vagal reflex	121, 20 <i>P</i> , 1953
	effects on gastric and pancreatic secretion in cats	129 54P, 1955
	Kidd C and Scratcherd, T Vago vagal reflex	,
	effects on the motility of the stomach and small	400 840
HAPRIES E H L		132 54P, 1956
DAPRIES E H L	A permanent venous cannula in a dog with a gastric fistula (T)	
	The effect of noradrenaline on the gastric secretory	128, 37 <i>P</i> , 1955
	response to histamine in the dog	133, 498, 1956
HARPIS A M	McDowall R J S and Zayat A F The effects of	
	potassium in the all or none phenomenon	
HAPPIS E J	An anomaly in the potassium exchange between	123 1P, 1953
	muscle and the surrounding fluids (T)	117 0=70 10=0
	the exchangeability of the potassium of from	117 25P, 1952
	muscle, studied in phosphate media	115 050 3000
	and Maizele M. Distribution of ions in suspensions of human erythrocytes	}
		118 40, 1952

HARRNESS, MARGARET L R	, Harkness, R D and James, D W Effect of protein free diet on total body collagen, Harkness, R D and Moralee, Brenda E Effect of	<b>128</b> , 15 <i>P</i> , 1955
	hormones on the collagen content of the rat's uterus  and Harkness, R D The growth of collagen in the	<b>128,</b> 16 <i>P</i> , 1955
,,	foetus, placenta and foetal membranes of the rat	<b>128</b> , 225, 1955
,,	and Harkness, R D Changes in the foetal membranes during pregnancy in the rat	129, 78 <i>P</i> , 1955
,,	and Harkness, R D Changes in the properties of the uterine cervix of the rat in pregnancy	<b>131,</b> 19 <i>P</i> , 1956
,,	and Harkness, R D The effect of pregnancy and lactation on the collagen content of the mammary	
"	gland of the rat and Harkness, R D Changes in the physical pro perties and in the collagen and hexosamine contents of the foetal membranes during preg	132, 476, 1956
	nancy in the rat and $Harkness$ , $R$ $D$ The distribution of the growth	132, 482, 1956
**	of collagen in the uterus of the pregnant rat and Harkness, $R$ D The collagen content of the	<b>132</b> , 492, 1956
**	liver in pregnancy and lactation	134, 135, 1956
HARRNESS, R D	The spatial distribution of dividing cells in the liver of the rat after partial hepatectomy Collagen in regenerating liver of the rat	116, 373, 1952 117, 257, 1952
,,	Changes in the liver of the rat after partial hepat-	127, 201, 201
,,	ectomy	117, 267, 1952
,	Harkness, Margaret L R and Further observations on collagen in the liver of the rat after partial hepatectomy  Harkness, Margaret L R and Collagen in the reproductive tract of the rat during pregnancy	120, 6 <i>P</i> , 1953
	and lactation  Harkness, Margaret L R and Further observations	120, 7P 1953
"	on collagen in regenerating liver of the rat  Harkness, Margaret L R and The collagen content of the reproductive tract of the rat during preg	<b>123</b> , 482, 1954
	nancy and lactation  Harkness, Margaret L R and The collagen	123, 492, 1954
"	content of the mammary gland of the rat during pregnancy and lactation	124, 32 <i>P</i> , 1954
,	Ferrari, V and Free amino acids in liver and blood after partial hepatectomy in normal and adrenalectomized rats	<b>124</b> 443, 1954
*	Harkness, Margaret L R, — and Santler, Joyce E Changes in the collagen content of the	
"	thyroid in rats treated with thiouracil  Greenbaum, A L, Greenwood F C and Glutamic dehydrogenase and glutamic aspartic trans	<b>125</b> , 51, 1954
	aminase in regenerating liver of the rat  Harkness, Margaret L R and The relation of	<b>125</b> , 251, 1954
"	collagen content of the liver to body weight in the	125, 447, 1954
,	Harkness, Margaret L R, ——and McDonald D A The collagen and elastin content of the arterial wall	127, 33 <i>P</i> , 1954
	Harkness Margaret L R, — and James, D W	, .
,1	Effect of protein free diet on total body collagen	128, 15 <i>P</i> , 1955

Harris, G W	and Woods, J W The effect of electrical stimu lation of the hypothalamus on thyroid activity (T)	132, 39 <i>P</i> , 1956
"	Donovan, B T and Adrenergic agents and the release of gonadotrophic hormone in the rabbit	132, 577, 1956
Harris, J E	and Whiting, H P Control of rhythmical activity in the skeletal muscle of the embryonic dogfish	124, 63 <i>P</i> , 1954
Harrison, R J	Hamilton, W J and The vascularization of the placentomes in the Cervidae (T)  Bernstein, L, —— and Tomlinson, J D W The sphincter above the diaphragm on the inferior vena cava of the common seal (Phoca vitulina L)	119, 6 <i>P</i> , 1952 123, 39 <i>P</i> , 1953
Hart, J	Clift, A F and Variations in the apparent vis	122, 358, 1953
HARTMANN, W. L.	Danesino, V, —, Huggett A St G and Paul, W The passage of sugars across the human placenta (T) Chinard, F P, Danesino, V —, Huggett, A St G, Paul, W and Reynolds, S R M The transmis sion of hexoses across the placenta in the human and the rhesus monkey (Macaca mulatta)	132, 12 <i>P</i> , 1956 132, 289, 1956
Назнізн S Е Е	Creese, R and Extracellular space of rat muscle Creese, R D Silva J L and Potassium in stimu	122 74P, 1953
	lated muscle  Creese R, D Silva J L and Inuln space and	122, 74P, 1953
"	fibre size of stimulated rat muscle	127, 525, 1955
Hastings, A B	, Peters, R A and Wakelin R W A study of the influence of the inorganic ion environment on the convulsions induced in pigeons by fluorocitrate	120, 50 <i>P</i> , 1953
HATCHER, J D	and Jennings, D B The rate of blood flow in the calf and paw of anaesthetized dogs measured by the venous occlusion plethysmograph technique with observations on the effects of intravenous infusions of adrenaline and noradrenaline	134 19 <i>P</i> 1956
Hatfifld H S	An apparatus for measuring the thermal conductivity of animal tissue  Measurement of ultrasonic absorption in tissue (T)	120 35 <i>P</i> , 1953 127, 28 <i>P</i> , 1954
HAWES L A	Dive C — and Pryn, J Methods of artificial respiration (Holger, Nielsen Schafer and Eve methods) (T)	
HAWMINS D F	and Smyth C N A serve regulated mk recorder for isolated smooth muscle preparations	119, 31 P, 1952
HAWKINS JOYCE	Blaschko H and Observations on amine oxidase in cephalopods	124, 8 <i>P</i> , 1954
HEAD K II	Cass Rosemary, ——, Riley, J. F., Stroud, S. W. and West, G. B. Heparin and histamine in mast cell tumours	118, 88, 1952
Heaf, P J	Forster C A, — and Sample S J Comphance of the lungs during anaesthesia (T)	125, 47 <i>P</i> , 1954
HEALD KATHLEE	and Langham M E Glycolvers in the living and	133, 58 <i>P</i> , 1956
,,	and Langham M E Oxygen supply to rabbit	122, 14P, 1953
	cornea	122, 15P, 1953

00	WOOMING OF THISTOHOUT	
HARRIS, E J	and Prankerd, $T$ $A$ $J$ The effects of tonicity upon the rate of sodium excretion from human crythro	
	cytes	120, 63P, 1953
,,	The exchange of frog muscle potassium	120, 246, 1953
	and Prankerd, T A J The rate of sodium extru	,,
"	sion from human erythrocytes	121, 470, 1953
	and McLennan, H Cation exchanges in sym	121, 410, 1000
,,	•	121 890 10-2
	pathetic ganglia	121, 629, 1953
**	Phosphate liberation from isolated frog muscle	<b>122,</b> 366, 1953
,,	and Nicholls, J G An effect of denervation on the	400 AD 1000
	rate of entry of potassium into frog muscle	<b>123</b> , 3 <i>P</i> , 1953
"	An effect of stretch upon the sodium output from	404 040 1054
	frog muscle	<b>124</b> , 242, 1954
**	Ionophoresis along frog muscle	<b>124</b> , 248, 1954
,,	The effect of Ca lack on the rate of loss of 45Ca	
	from frog muscle	<b>130</b> , 23 <i>P</i> 1955
"	and Miranda, M The prolongation of facilitation	
	in the electric eel by anticholinesterases	<b>130</b> , 24 <i>P</i> , 1955
,,	Edwards, C and Effects of temperature, K ions	
	and strophanthin on tracer sodium output from	
	frog sartorn (T)	130, 56P, 1955
,,	and Nicholls, J G The effect of denervation on the	
.,	rate of entry of potassium into frog muscle	131, 473, 1956
	and Steinbach, H B Inexchangeable Na and K in	
"	frog muscle	131, 20P, 1956
	and Steinbach, H B The extraction of ions from	, .
"	muscle by water and sugar solutions with a study	
	of the degree of exchange with tracer of the	
	sodium and potassium in the extracts	133, 385, 1956
	and Hutter, O F The action of acetylcholine on	100, 000,
**	the movements of potassium ions in the sinus	
	venosus of the heart	133, 58P, 1956
		100, 00- ,
HARRIS, G W	Feldberg, W and Histamine profiles of the mucosa	44H 01 D 1059
	of the gastro intestinal tract of the dog	117, 31 P, 1952
,,	Brown Grant K, von Euler C, —— and Reichlin, S	
	The measurement and experimental modification	
	of the activity of the thyroid gland of the rabbit	400 FOT 1059
	(T)	<b>120,</b> 59 <i>P</i> , 1953
,,	and Holton, Pamela Vasodilator activity in extracts	1059
	of various regions of the central nervous system	<b>120</b> , 254, 1953
,,	Feldberg, W and Distribution of histamine in the	1050
	mucosa of the gastro intestinal tract of the dog	<b>120</b> , 352, 1953
,,	Brown Grant, K, von Euler, C, — and Reichlin,	
	S The measurement and experimental modifi	1071
	cation of thyroid activity in the rabbit	<b>126</b> , 1, 1954
,,	Brown Grant, K, —— and Reichlin, S The effect of	
	emotional and physical stress on thyroid activity	
	in the rabbit	<b>126</b> , 29, 1954
	Brown Grant, K, — and Reichlin, S The in	
	fluence of the adrenal cortex on thyroid activity	
	in the rabbit	126, 41, 1954
,,	Donovan B T and Hypothalamic injections and	
**	ovulation in the rabbit	128, 13 <i>P</i> , 1955
,,	, Taurog, A and Tong, W The uptake of 121I	
**	labelled thyroxine and truodothyronine by the	
	neurohypophysis (T)	129, 43P, 1955
,,	Donovan B T and The effect of pituitary stalk	
	section on light induced oestrus in the ferret	<b>131</b> 102, 1956

HARRIS G W	and Woods, J W The effect of electrical stimulation of the hypothalamus on thyroid activity (T)  Donoran B T and Adrenergic agents and the release of gonadotrophic hormone in the rabbit	132, 39 <i>P</i> , 1956 132, 577, 1956
Harris, J E	and Whiting, H P Control of rhythmical activity in the skeletal muscle of the embryonic dogfish	124, 63 P, 1954
Harrison, R J	Hamilton W J and The vascularization of the placentomes in the Cervidae (T)  Bernstein, L., — and Tomlinson, J D W The sphincter above the diaphragm on the inferior	119, 6P 1952
	vens cars of the common seal (Phoca rituling L)	123 39P, 1953
HART J	Clift, A F and Variations in the apparent vis	122, 358 1953
Hartkan, W. L.	Danesino V., —, Huggett A St G and Paul W The passage of sugars across the human placenta (T) Chinard, F P Danesino V., — Huggett, A St G Paul, W and Reynolds S P M The transmis sion of hexoes across the placenta in the human and the rhesus monkey (Macaca mulatta)	132, 12 <i>P</i> , 1956 132, 289 1956
HASHISH S E E	Creese P and Extracellular space of rat muscle	122, 74P, 1953
77	Creese R, D Silva, J L and Potassium in stimu lated muscle	122 74P, 1953
77	Creese, P D Silva J L and Inulin space and fibre size of stimulated rat muscle	127, 525, 1955
HASTINGS A. B	Peters R A and Walelin R W A study of the influence of the inorganic ion environment on the convulsions induced in pigeons by fluorocitrate	120 50P 1953
Harchee 1 D	and Jennings D B The rate of blood flow in the calf and paw of anaesthetized dogs measured by the venous occlusion plethysmograph technique, with observations on the effects of intravenous infusions of adrenalme and noradrenalme	134 19 <i>P</i> , 1956
HATFIELD H. S	An apparatus for measuring the thermal conductivity of animal tissue  Measurement of ultrasonic absorption in tissue (T)	120, 35 <i>P</i> 1953 127, 28 <i>P</i> 1954
Hawes L. A.	Dire C —— and Prun J Methods of artificial respiration (Holger, Nielsen, Schafer and Eve methods) (T)	
HAWEINS, D F	and Smyth C N A servo regulated ink recorder for isolated smooth muscle preparations	119, 31.P, 1952
HAWEINS JOYCE	Blackly H and Observations on amine oxidase in cephalopods	124, 8P, 1954
Head K. W	Case Posemary — Riley, J. F., Stroud, S. W. and Weer, G. B. Heparin and histamine in mast cell tumours	118, 88, 1952
Heap, P J	Foreter C A, — and Sample, S J Comphance of the lungs during anaesthesia (T)	125, 47 <i>P</i> , 1954
HEALD, KATHLEE	and Langham M E Givenivas in the living and	133, 58P 1956
n	and Langham, M E Oxygen supply to rabbit	122, 14P 1953
	comea	122, 15P 1953

00	TOOMIND OF THISTODOOL	
HEALY, M J R	, Lockhart, R. D., MacKenzie, J., Tanner, J. M. and Whitehouse, R. H. The prediction of adult human body measurements from measurements taken from birth to five years	
Неатн, С	, Höhn, E O and Robson, J M Quantitative experiments on the mode of cestrogen progesterone antagonism in the rabbit endo metrium	116, 245, 1952
Hebb, Catherine O	, Swan, A B and Walsh, E G Some applications of Koelle's method for the histochemical demon stration of cholinesterase (T)	118, 5 <i>P</i> , 1952
,,	Balfour, W E and Mechanisms of acetylcholine synthesis	118, 94, 1952
"	and Wattes, G M H Choline acety lase in antero and retro grade degeneration of a cholinergic nerve	132, 667, 1956
"	Choline acetylase in the developing nervous	122 500 1058
,,	system of the rabbit and guinea pig and Smallman, B N Intracellular distribution of	133, 566, 1956
,,	choline acetylase and Silver Ann Choline acetylase in the central	134, 385, 1956
,,	nervous system of man and some other mammals	<b>134,</b> 718, 1956
Hecker, R	Andrews, W H H —, Maegrath B G and Ritchie, H D Technique of perfusion of the canine liver	<b>122</b> , 9 <i>P</i> , 1953
"	Andrews, W H H, —, Maegrath, B G and Ritchie, H D On direct connexions between hepatic artery and hepatic veins in the canine liver	<b>122</b> 51 <i>P</i> , 1953
"	Andrews, W H H, —, Maegrath, B G and Rttchie, H D Constriction within the canine hepatic venous tree	122, 53P, 1953
,,	Andrews, W H H, — and Maegrath, B G  The presence of autonomic relays within the	123, 73 <i>P</i> , 1954
,	Andrews, W H H, —, Maegrath B G and Retchie, H D The action of adrenaline L nor adrenaline acetylcholine and other substances on the blood vessels of the perfused canine liver	128, 413, 1955
,	Andrews, W H H, — and Maegrath, B G  The action of adrenaline, noradrenaline acetyl choline and histamine on the perfused liver of the monkey, cat and rabbit	132, 509, 1956
HELLMANN, K	and Hobbiger, F Correlation of histochemical and manometric studies on cholinesterase activity in	116, 46 <i>P</i> , 1952
,,	the diaphragm (T)  Quantitative histochemical demonstration of	
"	cholinesterase by means of radioactive copper Minute rhythmic contractile waves of the mam malian heart and the effect of urethane upon	117, 77 <i>P</i> , 1952
	them Minute rhythmic contractile waves of mammalian	120, 41P, 1953
,,	heart (Film) (T) Blaschko, H and Pigment formation from trypt	120, 45P, 1953
"	amine and 5 hydroxy tryptamine in tissues a	
	contribution to the histochemistry of amine oxidase	122, 419, 1953

HELLMANN, K	Collins, K J and The effect of heat exposure on thyroid and salivary gland activity in the mouse Collins, K J and The Harderian glands of mice	128, 49 <i>P</i> , 1955
	following exposure to high environmental temperatures	129, 3 <i>P</i> , 1955
"	Collins, K J, —, Lunnon, Barbara J and Weiner, J S Effect of heat exposure on urinary excretion of adrenocorticosteroids in man (T) Cholinesterase and amine oxidase in the skin a	<b>129</b> , 26 <i>P</i> , 1955
73	histochemical investigation	129, 454, 1955
Hellon, R F	and Lind, A R Circulation in the hand and fore arm with repeated daily exposures to humid heat Jones, R M, Macpherson, R K and Weiner, J S	128, 57 <i>P</i> , 1955
"	Natural and artificial acclimatization to hot environments	132, 559, 1956
,,	, Lind, A R and Weiner, J S The physiological reactions of men of two age groups to a hot environment	133, 118, 1956
,,	and Lind, A R Observations on the activity of sweat glands with special reference to the	
•	influence of ageing  Clarke, R S J and Measurement of forearm blood flow by strain gauge and volume plethys	133, 132, 1956
"	mographs and Land, A R Sweating and vasodilatation in	133, 24 <i>P</i> , 1956
Helps, E P W	the human forearm and McDonald, D A Systolic backflow in the dog	134, 18 <i>P</i> , 1956
·	femoral artery and McDonald, D A Arterial blood flow calcu	122, 73 <i>P</i> , 1953
"	lated from pressure gradients and McDonald, D A Observations on laminar flow	124, 30 <i>P</i> , 1954
"	in veins and McDonald, D A Streamline flow in veins	124, 631, 1954 126, 5 <i>P</i> , 1954
Hemingway, A	Coleridge, J C G and Partition of the venous	·
,	return to the heart (T)  Coleridge, J C G and A perfusion pump for large outputs	120, 29 <i>P</i> , 1953
,, ,	Automatic analysis of respiratory gases (T)	122, 67 <i>P</i> , 1953 122, 68 <i>P</i> , 1953
_	Linden, R J Atrial receptors in the dog	132, 68P, 1956
Henatsch, H D	Grantt, R, —— and Steg, G Differentiation of tonic from phasic extensor motoneurones by post-tetanic potentiation	133, 12 <i>P</i> , 1956
Henderson, Anne E	and MacDougall, J D B The respiration of arterial tissue (T)	
HENDERSON, A S	The ear lobe as a source of blood in haemoglobin estimation	130, 1 <i>P</i> , 1955
HENRY J P	and Pearce, J W The possible role of cardiac atrial stretch receptors in the induction of changes in urine flow	121, 43P, 1953
Hensel, H.	Recording of muscle blood flow with therma	131, 572, 1956
	electric needle recorders (T)  Barcroft, H —— and Kitchin, A H Comparison of plethysmograph and thermo-electric needle records of calf blood flow during intravenous	
	adrenaline infusions	127, 7 <i>P</i> , 1954

Hensel, H	Barcroft, H, Bock, KD, —— and Kutchin, AH The effect of body warming on the blood flow through human muscle (T)	7 <b>129,</b> 31 <i>P</i> , 1955
Hercus, V M	, $McDowall$ , $R$ $J$ $S$ and $Mendel$ , $D$ Sodium ex changes in cardiac muscle	<b>129</b> , 177, 1955
Herve, A	Bacq, Z M and The protective effect of amines against X irradiation	118, 24 <i>P</i> , 19 <sub>0</sub> 2
Herxheimer, H	Repeatable microshocks of constant strength in guinea pig anaphylaxis	116, 28P, 1951
79	Repeatable microshocks of constant strength in guinea pig anaphylaxis	<b>117</b> , 251, 1952
"	and $Rosa$ , $\bar{L}$ The action of cortisons in the ana phylactic shock of the guinea pig	<b>118</b> , 7 <i>P</i> , 1952
"	Armstage, P, —— and Rosa, L Antihistamine action in the anaphylactic shock of the guinea	118, 34 <i>P</i> , 1952
,,	pig The bronchial reaction of guinea pigs to 5 hydroxy	
"	tryptamine (serotonin) Further observations on the influence of 5 hydroxy	<b>120</b> , 65 <i>P</i> , 1953
	tryptamine on bronchial function Sensitization of guinea pigs by aerosol	122 49P, 1953 124, 34P, 1954
,	and West, T Sensitization of guinea pigs by	
"	inhalation The 5 hydroxytryptamine shock in the guines pig	127, 564, 1955 128, 435 1955
"	and McAllen, Monica K Recording of cough produced by aerosol	133 67P, 1956
Heslop, T S	Burstall, Pamela A, Catton, W T, —, Schofield, B and Wright, D E An attempt to produce continuous stimulation of the vagal innervation of the stomach by phrenic vagus anastomosis in dogs	117, 58 <i>P</i> , 1952
Hess, W R	Experimental contribution to the dynamics of posture (Film) (T)	129, 40 <i>P</i> , 1955
Heuson J	Cerf J and An electrotonic restoration of nerve conduction in heat block of the frog sciatic nerve	126, 12 <i>P</i> , 1954
Немат, Н А	Recommendations of XVIII International Red Cross Conference on methods of artificial respiration (T)	119, 51 P, 1952
Hel, P	Brown Barbara G and Substituted choline ary lethers as inhibitors of amine oxidase	118 15 <i>P</i> , 1952
**	and Willey G L Choline 2 6 x3 lyl ether bromide an active quaternary local anaesthetic	122, 75P, 1953
Heyningen,		
RUTH VAN	see van Heyningen, Ruth	
Нісківн, D Е	Angus, T C and Mechanical equipment and experimental methods used in the investigation of group requirements for ventilation and thermal comfort (T)	<b>127</b> 45 <i>P</i> , 1955
,,	Croton, L M, Crowden, G P and The use of solid CO <sub>2</sub> as a refrigerant in a climatic chamber of light construction (T)	127, 53 <i>P</i> , 1955
Higgins, G M	Code, C F Dews P B and The relationship of the adrenal gland to concentration of histamine and number of leucocytes in the blood of rabbits	121, 487, 1953

mand Whitfield, I C Frequency response characterstace of emple units in the trapezoid body and Whitfield, I C Responses of the trapezoid body to acoustic stimulation with pure tones and Macpherson, L The effect of certain amons on the duration of the active state in skeletal muscle and Houarth, J V Muscle heat production recorded on a smoked drum (T)  The optical properties of resting strinted muscle The effect of rapid stretch on the scattering and diffraction of light The effect of rapid stretch on the scattering and diffraction of light by striated muscle  Hillow, R Dickworth, J and The effect of the level of dietary calcium during pregnancy and lactation on the skeleton of the ewe and Holton, Pamela Some observations on vascular responses in the rabbit sear  The effects of motion on muscle blood flow and Holton, Pamela Some observations on vascular responses in the rabbit sear  The effects of motion on muscle blood flow and Holton, Pamela The site of autidromic vaso distation of the femoral artery following contraction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle  and Lywood, D W A photoelectric drop counter. The effects of motion on the post-contraction hyperaemia of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Lewis, G P The cause of the vasodilatation in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation in the submandibular salivary gland and Lewis, G P The sucke of the vasodilatation in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation in the submandibular salivary gland and Lewis G P The cause of the vasodilatation in t	Hilali, S	and Whitfield, I C Auditory responses of single nerve units at the level of the trapezoid body	117, 62 <i>P</i> , 1952
Hill, A V and Macpherson, L The effect of certain amons on the duration of the active state in skeletal muscle and Howarth, J V Muscle heat production recorded on a smoked drum (T) 128, 37P, 1955  Hill D K The optical properties of resting striated muscle The effect of rapid stretch on the scattering and diffraction of light by striated muscle The effect of stimulation on the diffraction of light by striated muscle aclium during pregnancy and lactation on the skeleton of the ewe 123, 69P, 1954  Hilton, S M On the increase in muscle blood flow following contraction A Perspex drop chamber and Holton, Pamela Some observations on vascular responses in the rabbit s ear 177, 13P, 1952  The effects of mecoine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation in the rabbit s ear (T) Experiments on the post-contraction hyperaemia of skeletal muscle and Lywood, D W A photoelectric drop counter. The effects of mectime on the blood vessels of skeletal muscle and Lywood, D W A photoelectric drop counter. The effects of mectime on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit sear (T) (20, 230, 1953) (20, 230, 1953) (22, 289, 1954) (23, 289, 1954) (25, 48P, 1954) (25, 48P, 1954) (25, 48P, 1955) (26, 48P, 1954) (26, 48P, 1955) (26, 48P, 1954) (26, 48P, 1955) (26, 48P,	"	and Whitfield, I C Frequency response charac tensics of single units in the trapezoid body	120, 9P, 1953
the duration of the active state in skeletal muscle and Howarth, J V Muscle heat production recorded on a smoked drum (T)  HILL D K  The optical properties of resting strated muscle The effect of rapid stretch on the scattering and diffraction of light The effect of rapid stretch on the scattering and diffraction of light by strated muscle  HILL, R  Duckworth, J and The effect of the level of dietary calcium during pregnancy and lactation on the skeleton of the ewe takeleton of the west takeleton of the was tresponses in the rabbit s ear (T)  The effects of nicotine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation of the muscles of the lower leg (T) Experiments on the post-contraction hyperaemia of skeletal muscle  and Lywood, D W A photoelectric drop counter the effects of nicotine on the blood vessels of skeletal muscle in the cat An investigation of visiomotor axon reflexes and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the submandibular salivary gland and Lewis, G P The cause of the vasodilatation in the submandibular salivary gland and Lewis, G P Tine cause of the vasodilatation and post contraction hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinun formation  Temoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraido, W T Feldberg W and Experiments on the factor in urine forming substance U  For R H and Sweat gland activity as a contributory factor to heat vasodilatation in the burner at the submandibular salivary gland and bradykinun formation the factor i	,,	body to acoustic stimulation with pure tones	122, 158, 1953
Hill D K  The optical properties of resting strated muscle The effect of rapid stretch on the scattering and diffraction of light The effect of stimulation on the diffraction of light by strated muscle  Hill D K  Duckworth, J and The effect of the level of dietary calcium during pregnancy and lactation on the skeleton of the ewe On the micrease in muscle blood flow following contraction A Perspex drop chamber and Holton, Pamela Some observations on vascular responses in the rabbit s ear The effects of meotine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation in the rabbit s ear (T) The dilatation of the femoral artery following of skeletal muscle and Lywood, D W A photoelectric drop counter The effects of micotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear and Lewis, G P The cause of the vasodilatation and blood flow in the rabbit s ear and Lewis G P Functional hyperaemia in the submandibular salivary gland and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P Themechanism of the functional hyperaemia in the submandibular salivary gland  The submandibular salivary gland and bradykum formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  For R H and Sweat gland activity as a contri- butory factor to heat vasodilatation in the submandibular salivary gland and bradykum formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  For R H and Sweat gland activity as a contri- butory factor to heat vasodilatation in the submandibular salivary gland and bradykum formation	HILL, A V	the duration of the active state in skeletal muscle	125, 17 <i>P</i> , 1954
The effect of rapid stretch on the scattering and diffraction of light  The effect of stimulation on the diffraction of light by strated muscle  Duckworth, J and The effect of the level of dietary calcium during pregnancy and lactation on the skeleton of the ewe  Hilton, S M On the increase in muscle blood flow following contraction  A Perspex drop chamber  A Perspex drop chamber  A Perspex drop chamber  The effects of incotine on muscle blood flow and Holton, Pamela Some observations on vascular responses in the rabbit's ear (T)  The dilatation of the femoral artery following contraction of the muscle of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle in the cat. An investigation of skeletal muscle in the submandibular salvary gland and Lewis G P. The cause of the vasodilatation in the submandibular salvary gland and Lewis G P. Functional hyperaemia in the submandibular salvary gland and Lew	,,	recorded on a smoked drum (T)	128, 37 P, 1955
Hill, R  Duckworth, J and The effect of the level of dietary calcium during pregnancy and lactation on the skeleton of the ewe  Hill Ton, S M  On the merease in muscle blood flow following contraction  A Perspex drop chamber and Holton, Pamela Some observations on vascular responses in the rabbit s ear  The effects of nicotine on muscle blood flow and Holton, Pamela Some observations on vascular responses in the rabbit s ear (T)  The diletation of the femoral artery following con traction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Lywood, D W A photoelectric drop counter  The effects of nicotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Holton, Pamela Cantidromic vasodilatation and blood flow in the rabbit s ear  and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chords tympan:  and Lewis G P Finctional hyperaemia in the submandibular salivary gland  and Lewis, G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Finctional hyperaemia in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Finctional hyperaemia in the submandibular salivary gland and bradykium formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beroldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the hyperaemia of the leg muscles  131, 31P, 1956	HILL D K	The effect of rapid stretch on the scattering and diffraction of light	119, 489, 1953
Calcium during pregnancy and lactation on the skeleton of the ewe  Hilton, S. M. On the increase in muscle blood flow following contraction  A. Perspex drop chamber  A. Perspex drop chamber  and Holton, Pamela Some observations on vascular responses in the rabbit sear  The effects of nicotine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation in the rabbit sear (T)  The dilatation of the femoral artery following contraction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaema of skeletal muscle and Lywood, D. W. A photoelectric drop counter the effects of nicotine on the blood vessels of skeletal muscle in the cat. An investigation of vasomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit sear  and Lewis, G. P. The cause of the vasodilatation in the submandibular gland on stimulation of the chords tympani.  and Lewis G. P. The cause of the vasodilatation accompanying activity in the submandibular salivary gland.  and Lewis, G. P. The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G. P. Functional hyperaemia in the submandibular salivary gland and Lewis, G. P. Functional hyperaemia in the submandibular salivary gland and Lewis, G. P. Functional hyperaemia in the submandibular salivary gland and Lewis, G. P. Functional hyperaemia in the submandibular salivary gland and bradykium formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W. T. Feldberg W. and Experiments on the factor in urine forming substance U.  For R. H. and Sweat gland activity as a contributory factor to heat vasodilatation in the butter of the topic of the vasodilatation in the butter of the contributory factor to heat vasodilatation in the butter of the contributory factor to heat vasodilatation in the butter of the contributory factor to heat vasodilatation in the butter of the contributory factor to heat vasodilatation in the butter of the contributory factor t	,		119, 501, 1953
Hilton, S. M. On the merease in muscle blood flow following contraction  A Perspex drop chamber  and Holton, Pamela Some observations on vascular responses in the rabbit sear  The effects of nicotine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation in the rabbit sear (T)  The dilatation of the femoral artery following contraction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle in the cat An investigation of skeletal muscle in the cat An investigation of assomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation in the submandibular gland on stimulation of the chorda tympian and Lewis G P The cause of the vasodilatation in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation formation  A Perspex drop chamber 117, 48P, 1952  117, 48P, 1952  118, 41P, 1952  120, 230, 1953  123, 64P, 1954  125, 138, 1954  125, 138, 1954  125, 138, 1954  125, 148P, 1954  125, 148P, 1952  120, 230, 1953  123, 289, 1954  125, 148P, 1952  126, 6P, 1953  127, 230, 1953  128, 24P, 1954  129, 253, 1955  128, 235, 1955  129, 253, 1955  129, 253, 1955  130, 43P, 1956  131, 31P, 1956  131, 31P, 1956	Hnz, R	calcium during pregnancy and lactation on the	123, 69 <i>P</i> , 1954
mad Holton, Pamela Some observations on vascular responses in the rabbit s ear  The effects of incotine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation of the femoral artery following contraction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle  and Lywood, D W A photoelectric drop counter the effects of incotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the submandibular salivary gland and Lewis, G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykuun formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the humps stan.	Huton, S M	•	
responses in the rabbit s ear The effects of incotine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation in the rabbit s ear (T) The dilatation of the femoral artery following con traction of the muscles of the lower leg (T) Experiments on the post-contraction hyperaemia of skeletal muscle and Lywood, D W A photoelectric drop counter The effects of incotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear and Lewis, G P The cause of the vasodilatation and Lewis G P The cause of the vasodilatation and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykuun formation Femoral artery dilatation and post contraction hyperaemia of the leg muscles Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contri butory factor to heat vasodilatation in the butory factor to heat vasodilatation in the			
The effects of nicotine on muscle blood flow and Holton, Pamela The site of antidromic vaso dilatation in the rabbit s ear (T)  The dilatation of the femoral artery following con traction of the muscles of the lower leg (T) Experiments on the post-contraction hyperaemia of skeletal muscle and Lywood, D W A photoelectric drop counter The effects of nicotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the submandibular salivary gland and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contin buttory factor to heat vasodilatation in the			117, 101, 1002
dilatation in the rabbit s ear (T)  The dilatation of the femoral artery following contraction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle  and Lywood, D W A photoelectric drop counter  The effects of incotine on the blood vessels of skeletal muscle in the cat. An investigation of vasomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear  and Lewis G P The cause of the vasodilatation in the submandibular gland on stimulation of the submandibular salivary gland  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the		•	
dulatation in the rabbit s ear (T)  The dilatation of the femoral artery following contraction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle  and Lywood, D W A photoelectric drop counter  The effects of meotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear  and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Feraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the human shiperage in the submandilatation in the human substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the human shiperage in the submandilatation in the human shiperage in the submandilation in the submandibular salivary gland and bradykinin formation  The factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the submandilatation in the submandilation in the submandibular salivary gland and bradykinin formation in the submandilation in	"		118, 41 P, 1952
The dilatation of the femoral artery following contraction of the muscles of the lower leg (T)  Experiments on the post-contraction hyperaemia of skeletal muscle  and Lywood, D W A photoelectric drop counter  The effects of nicotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear  and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P Functional hyperaemia in the submandibular salivary gland  and Lewis, G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the human silvary gland activity as a contributory factor to heat vasodilatation in the	**		118, 44 P 1959
Experiments on the post-contraction hyperaema of skeletal muscle  and Lywood, D W A photoelectric drop counter The effects of nicotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit sear and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the	,,		
of skeletal muscle and Lywood, D W A photoelectric drop counter The effects of nicotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chords tympani and Lewis G P Functional hyperaemia in the submandibular salivary gland and Lewis, G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contri butory factor to heat vasodilatation in the			120, 6P, 1953
mad Lywood, D W A photoelectric drop counter The effects of nicotine on the blood vessels of skeletal muscle in the cat An investigation of vasomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear  and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P Functional hyperaemia in the submandibular salivary gland  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the humans of the leg account of the submandilation in the humans of the submandilatation in the humans of the substance of the leg muscles  123, 64P, 1954  125, 138, 1954  125, 48P, 1954  128, 11P, 1955  128, 235, 1955  129, 253, 1955			120 920 1050
The effects of nicotine on the blood vessels of skeletal muscle in the cat. An investigation of vasomotor axon reflexes  and Holton, Pamela. Antidromic vasodilatation and blood flow in the rabbit sear  and Lewis, G. P. The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani.  and Lewis G. P. Functional hyperaemia in the submandibular salivary gland.  and Lewis G. P. The cause of the vasodilatation accompanying activity in the submandibular salivary gland.  and Lewis, G. P. The mechanism of the functional hyperaemia in the submandibular salivary gland.  and Lewis, G. P. Functional hyperaemia in the submandibular salivary gland and bradykinin formation.  Femoral artery dilatation and post contraction hyperaemia of the leg muscles.  Beraldo, W. T. Feldberg W. and Experiments on the factor in urine forming substance U.  Fox R. H. and Sweat gland activity as a contributory factor to heat vasodilatation in the human et in.			
Assomotor axon reflexes  and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear  and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P Functional hyperaemia in the submandibular salivary gland and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contri buttory factor to heat vasodilatation in the			120, 011, 1004
and Holton, Pamela Antidromic vasodilatation and blood flow in the rabbit s ear  and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P Functional hyperaemia in the submandibular salivary gland  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the burners to me the factor to heat vasodilatation in the burners to me the factor to heat vasodilatation in the burners to me the factor to heat vasodilatation in the burners to me the factor to heat vasodilatation in the burners to me the factor to heat vasodilatation in the burners to me the factor to heat vasodilatation in the burners to me the factor to heat vasodilatation in the burners to me the factor to factor factor to factor			
and blood flow in the rabbit s ear  and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P Functional hyperaemia in the submandibular salivary gland  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the burners stim.			123, 289, 1954
and Lewis, G P The cause of the vasodilatation in the submandibular gland on stimulation of the chorda tympani  and Lewis G P Functional hyperaemia in the submandibular salivary gland  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the burners to me the factor in the submandibutary as a contributory factor to heat vasodilatation in the burners to me the factor in the submandibutary as a contributory factor to heat vasodilatation in the burners to me the factor in the submandibutary as a contributory factor to heat vasodilatation in the burners to me the factor in the submandibutary as a contributory factor to heat vasodilatation in the submandibutary as a contributory factor to heat vasodilatation in the submandibutary and the submandibutary and the submandibutary salivary gland and bradykining formation in the submandibutary gland and bradykining formation in the submandibutary gland and bradykining formation in the submandibutary gland and bradykining fo	•		105 100 1054
the submandibular gland on stimulation of the chords tympan:  and Lewis G P Functional hyperaemia in the submandibular salivary gland  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Temoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the hyperaemia in the submandibular salivary gland and bradykinin formation  125, 48 P, 1954  128, 11 P, 1955  128, 235, 1955  129, 253, 1955  130, 43 P, 1955	,		125, 138, 1954
and Lewis G P Functional hyperaemia in the submandibular salivary gland and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Temoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the himpers stim.		the submandibular gland on stimulation of the	
submandibular salivary gland  and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contri buttory factor to heat vasodilatation in the			125, 48P, 1954
and Lewis G P The cause of the vasodilatation accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the hyperaemia in the	17	submandibular salivary gland	120 11 D 10==
accompanying activity in the submandibular salivary gland  and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the hyperaemia in the submandibular salivary gland and bradykinin formation  128, 235, 1955  129, 253, 1955  130, 43P, 1955  131, 31P, 1956		and Lewis G P The cause of the vasodilatation	120, 1117, 1955
and Lewis, G P The mechanism of the functional hyperaemia in the submandibular salivary gland  and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the hyperaemia in the submandibular salivary gland and bradykinin  130, 43P, 1955  131, 31P, 1956		accompanying activity in the submandibular	
hyperaemia in the submandibular salivary gland and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the		• •	<b>128</b> , 235, 1955
and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin formation  Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the		hyperaemia in the submandibular salivary	
Femoral artery dilatation and post contraction hyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the	,	and Lewis, G P Functional hyperaemia in the	129, 253, 1955
nyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on the factor in urine forming substance U  Fox R H and Sweat gland activity as a contributory factor to heat vasodilatation in the human slam.	,	Femoral artery dilatation and post contraction	130, 43P, 1955
For R H and Sweat gland activity as a contributory factor to heat vasodilatation in the	,	nyperaemia of the leg muscles  Beraldo, W T Feldberg W and Experiments on	131, 31 <i>P</i> , 1956
butory factor to heat vasodilatation in the		the factor in time forming substance II	133, 558, 1956
	,	butory factor to heat vasodilatation make	
		human skin	

#### JOURNAL OF PHYSIOLOGY

Hensel, H	Barcroft, H, Bock, K D, — and Kitchin, A H The effect of body warming on the blood flow through human muscle (T)	
Hercus, V M	, McDowall, R J S and Mendel, D Sodium ex changes in cardiac muscle	
Herve, A	Bacq, Z M and The protective effect of amine against X irradiation	s 118, 24 <i>P</i> , 1952
HERXHEIMER, H	Repeatable microshocks of constant strength in guinea pig anaphylaxis	116, 28P, 1951
,,	Repeatable microshocks of constant strength in guinea pig anaphylaxis	117, 251, 1952
,	and Rosa, L The action of cortisone in the ana phylactic shock of the guinea pig  Armitage, P, —— and Rosa, L Antihistamine	118, 7 <i>P</i> , 1952
"	action in the anaphylactic shock of the guinea	118, 34 <i>P</i> , 1952
,,	The bronchial reaction of guinea pigs to 5 hydroxy tryptamine (serotonin)	<b>120</b> , 65 <i>P</i> , 1953
,	Further observations on the influence of 5 hydroxy tryptamine on bronchial function Sensitization of guinea pigs by aerosol	122, 49 P, 1953 124, 34 P, 1954
"	and West, T Sensitization of guinea pigs by inhalation  The 5 hydroxytryptamine shock in the guinea pig	127, 564, 1955
"	and McAllen, Monica K Recording of cough produced by aerosol	
Heslop, T S	Burstall, Pamela A, Catton, W T, —, Schofield, B and Wright, D E An attempt to produce continuous stimulation of the vagal innervation of the stomach by phrenic vagus anastomosis in dogs	
Hess, W R	Experimental contribution to the dynamics of posture (Film) (T)	129, 40 <i>P</i> , 1955
Heuson, J	Cerf, J and An electrotonic restoration of nerve conduction in heat block of the frog sciatic nerve	126, 12P 1954
HEWAT, H A	Recommendations of XVIII International Red Cross Conference on methods of artificial respiration (T)	119, 51 P, 1952
Hel, P	Brown Barbara G and Substituted choline aryl ethers as inhibitors of amme oxidase	118, 15 <i>P</i> , 1952
"	and Willey, G. L. Choline 2.6 xylyl ether bromide, an active quaternary local anaesthetic	122, 75P, 1953
Heyningen, Ruth van	see van Heyningen, Ruth	
Ніскізн, D Е	Angus T C and Mechanical equipment and experimental methods used in the investigation of group requirements for ventilation and thermal comfort (T)	<b>127</b> 45 <i>P</i> , 1955
,,	Croton, L M Crowden, G P and The use of solid CO, as a refrigerant in a climatic chamber of light construction (T)	127, 53 <i>P</i> , 1955
Higgins, G M	Code, C F, Dews, P B and The relationship of the adrenal gland to concentration of histamine and number of leucocytes in the blood of rabbits	121, 487, 1953

Hilali, S	and Whitfield, I C Auditors responses of single nerve units at the level of the trapezoid body	117, 62 <i>P</i> , 1952
79	and Whitfield, I C Frequency response characteristics of single units in the trapezoid body	120, 9 <i>P</i> , 1953
2)	and Whitfield, I C Responses of the trapezoid body to acoustic stimulation with pure tones	122, 158, 1953
Hul, A. V	and Macpherson, L The effect of certain anions on the duration of the active state in skeletal muscle and Howarth, J V Muscle heat production	125, 17P, 1954
**	recorded on a smoked drum (T)	128, 37P, 1955
Нпл., D К	The optical properties of resting striated muscle The effect of rapid stretch on the scattering and diffraction of light The effect of stimulation on the diffraction of	119, 489, 1953
•	light by striated muscle	119, 501 1953
Hnr K	Duckworth, J and The effect of the level of dietary calcium during pregnancy and lactation on the skeleton of the ewe	123 69P, 1954
Huton, & M	On the increase in muscle blood flow following	117 1970 1050
,,	contraction A Perspex drop-chamber	117, 13 <i>P</i> , 1952 117, 48 <i>P</i> , 1952
•	and Holton Pamela Some observations on vascular	117 50 D 1050
,,	responses in the rabbit s ear The effects of nicotine on muscle blood flow	117, 50 <i>P</i> , 1952 118 41 <i>P</i> , 1952
,	and Holton Pamela The site of antidromic vaso dilatation in the rabbit's ear (T)	118, 44 <i>P</i> , 1952
,	The dilatation of the femoral artery following con traction of the muscles of the lower leg (T)	120, 6 <i>P</i> , 1953
	Experiments on the post contraction hyperaemia of skeletal muscle	<b>120,</b> 230, 1953
,	and Lywood D W A photoelectric drop counter	123, 64P, 1954
7	The effects of nicotine on the blood vessels of skeletal muscle in the cat. An investigation of	
	asomotor axon reflexes	123 289 1954
	and Holton Pamela Antidromic vasodilatation and blood flow in the rabbit s ear	125, 138, 1954
,	and Lewis, G P The cause of the vasodilatation in	120, 100, 130+
	the submandibular gland on stimulation of the chords tympani	125, 48 <i>P</i> , 1954
	and Lewis, G P Functional hyperaemia in the	120, 101 , 1334
	submandibular salwary gland and Lewis, G P The cause of the vasodilatation	128, 11 <i>P</i> , 1955
	accompanying activity in the submandibular salivary gland	
	and Lewis, G P The mechanism of the functional	128, 235, 1955
	hyperaemia in the submandibular salivary	120 000 44
	and Lewis, G P Functional hyperaemia in the submandibular salivary gland and bradykinin	129, 253, 1955
	Femoral artery dilatation and part contraction	130, 43P, 1955
	Beraldo, W. T., Feldberg W. and Exportant	
	the factor in urine forming substance U  Fox, R H and Sweat gland activity as a contributory factor to heat vasodilatation in the	133, 558, 1956
	human skin	133, 68 <i>P</i> , 1956

Нито S М	and Lewis, G P The relationship between glandu lar activity, bradykinin formation and functional vasodilatation in the submandibular salivary gland	<b>134</b> , 471, 1956
Himms, Jean M	Blaschlo, H and Amme oxidase in the earthworm Blaschlo, H and D Glutamic acid oxidase in cephalopod liver	120, 445, 1953 128, 7 <i>P</i> , 1955
HINES, BERNICE E	and McCance, R A Pseudo cholinesterase activity in secretions and organs of piglets and pigs and McCance, R A Ammonia formation from	122, 188, 1953
	glutamine by kidney slices from adult and new born animals	124, 8, 1954
HINGERTY, D J	Changes in phosphate ester levels of muscle after adrenal ectomy (T)	<b>125</b> 66P 1954
HIRD, F J R	Agar, W T, —— and Sidhu, G S The active ab sorption of amino acids by the intestine	121, 255, 1953
Новысек, F	Hellmann, K and Correlation of histochemical and manometric studies on cholinesterase activity in the diaphragm (T)  and Keele, C A Effects of infusion of 5 hydroxy	116, 46 <i>P</i> , 1952
,,	tryptamine (serotonin) on the blood pressure of the cat (T)	119, 31 <i>P</i> , 1952
,,	and Lessin, A W Correlation between transience of atropine block and the incidence of atropine esterase in rabbits	128, 71 <i>P</i> , 1955
"	Gould R P and Experimental demyelination in chickens (T)	130, 33 <i>P</i> , 1955
Hodgkin, A L	Huxley A F and Katz, B Measurement of current voltage relations in the membrane of the giant axon of Loligo	116, 424 1952
,,	and Huxley A F Currents carried by sodium and potassium ions through the membrane of the giant axon of Loligo	116, 449, 1952
,,	and Huxley, A F The components of membrane conductance in the giant axon of Loligo	116 473, 1952
"	and Huxley A F The dual effect of membrane potential on sodium conductance in the giant axon of Loligo	116, 497 1952
'n	and Keynes, R D Methods of investigating sodium transport in Sepia axons (T)	117 54P, 1952
,	and Huxley A F A quantitative description of membrane current and its application to conduction and excitation in nerve	117, 500, 1952
,,	and Keynes R D The mobility and diffusion coefficient of potassium in giant axons from Sepia	119 513, 1953
	and Keynes, R D Metabolic inhibitors and sodium movements in giant axons and Keynes, R D Sodium extrusion and potas	120 45P, 1953
"	sium absorption in Sepia axons and Huxley, A F Movement of radioactive	120 46P 1953
,	potassium and membrane current in a giant axon and Keynes, R D Apparatus for quantitative injection of substances into giant axons (T)	121 403, 1953 125, 14 <i>P</i> 1954
)) ))	and Keynes, R D Movement in single file (T) A note on conduction velocity	125, 15 <i>P</i> , 1954 125, 221, 1954

Hodgen A. L	Frankenhaeuser, B and The effect of calcium on the sodium permeability of a giant nerve fibre	128 40 <i>P</i> , 1955
,	and Keynes, P D Active transport of cations in giant axons from Sepia and Loliqo and Keynes R D The potassium permeability of	128 28, 1955
	a giant nerve fibre	128 61, 1955
	Frankenhaeuser, B and The after-effects of impulses in giant nerve fibres	129 51P, 1955
	Frankenhaeuser, B and The after-effects of impulses in the giant nerve fibres of Loligo and Keynes, R D Experiments on the injection	131 341 1956
	of substances into squid giant axons by means of a microsyringe Cool, R H, —— and Horouric P The effect of	131 592, 1956
	rapid changes in ionic concentration on the tension produced by single muscle fibres (T)	133 27P, 1956
HOET P L	Sugar tolerance and pregnancy in the rabbit (T) Cortisone and placental glycogen in the rabbit (T) Cortisone and placental glycogen in the rabbit Sugar tolerance and pregnancy in the rabbit	120, 18 <i>P</i> , 1953 120, 18 <i>P</i> , 1953 120, 68 <i>P</i> , 1953 120, 68 <i>P</i> , 1953
HOFFMAN H	Causey G and Axosomatic synapses in the superior cervical ganglion	130 50 <i>P</i> 1955
HOFMANN T	and Owen E C The separation of proteins by electrophoresis on filter paper and its application to bovine and goat blood, colostrum and milk (T)	121, 41 <i>P</i> , 1953
Нонх, Е О	Heath C —— and Robson J M Quantitative experiments on the mode of oestrogen progesterone antagonism in the rabbit endometrium	116, 245, 1952
HOEN, L E	and Holan Mabel R. The actions of pancreozymin in pancreas slices and the role of phospholipids in enzyme secretion.	132, 442 1956
Hoein, Mabel R	Hol-in $L$ $E$ and The actions of pancreozymin in pancreas slices and the role of phospholipids in enzyme secretion	132, 442 1956
Holdstock, D J	, Mathias A P and Schachter M A comparative study of kinin kallidin and bradykinin	133, 14 <i>P</i> , 1956
HOLGATE, J A.	Substances with vasoconstrictor action in rabbit plasma  Cambridge G W and The investigation of pharma cological activity in rabbit plasma by (1) the	122 46 <i>P</i> , 1953
	perfused rabbit ear, and (2) superfused isolated tissues (T)  The influence of ionized calcium on the race	122 68P 1953
	constructor activity of rabbit plasma (T)  Cambridge G W and The effect of mepyramine maleate on the activity of histamine and 5-	122, 75 <i>P</i> , 1953
	guinea pig ileum (T)	122 75 <i>P</i> , 1953
,	Cambridge G W and A method for the identification of 5-hydroxytryptamine	130, 22 <i>P</i> , 1955
Holman, Volli	potential and spontaneous activity in column	
	deficient striated muscle of the frog	132 12P, 1956

HOLMAN, MOLLIE E	Bülbring, Edith, — and Lüllmann H Effects of calcium deficiency on striated muscle of the frog	
HOLLAND, W W	Bradley, R D, Gashell, P, —, Lee, G de J and Young, I Maureen The acid base changes in arterial blood during adrenaline hyperphoea in man	
,,	Bradley, R D, Gaskell, P, —, Lee, G de J and Young, I Maureen The acid base changes in arterial blood during adrenaline hyperphoes in man	
"	and Young, I Maureen Physiological responses of the neonatal blood pressure (T)	
Holmes, O	Brown, G L and The effect of activity on mammalan C fibres	128 9P, 1955
"	Brown, G L and Action potentials of mam malian C fibres (T)	128, 37 <i>P</i> , 1955
,,	Post tetanic enhancement of action potential in vitro	<b>134</b> , 6 <i>P</i> , 1956
Holmes, R	Carotid sinus baroceptor afferent fibres in the aortic nerve of the cat	126, 40 <i>P</i> , 1954
,,	and Torrance, R W Afferent fibres of the inferior cardiac nerve	<b>130,</b> 45 <i>P</i> , 1955
Holmes, R L	Coleridge J C G, Hemingway, A, — and Linden, R J Atrial receptors in the dog	<b>132</b> , 68 <i>P</i> , 1956
Holmgren, B	Conduction along the dorsal tracts of the spinal cord	122, 22P, 1953
"	Eldred, E, Grant, R, —— and Merton, P A Proprioceptive control of muscular contraction and the cerebellum	<b>123</b> , 46 <i>P</i> , 1953
,,	and Merton, P A Local feedback control of moto neurones	123, 47P, 1953
**	Conduction along the dorsal tracts of the spinal cord	123, 324, 1954
"	Grant, R, —— and Merton, P A The two routes for excitation of muscle and their subservience to the cerebellum	130, 213, 1955
***	von Euler, C, and The thyroxine 'receptor of the thyroid pituitary system	131, 125, 1956
,,	von Euler, C and The role of hypothalamo hypophysial connexions in thyroid secretion	131, 137, 1956
Holt, S J	and Withers, $R$ $F$ $J$ Cytochemical localization of esterases using 5 bromoindoxyl acetate	119, 36 <i>P</i> , 1952
Holton, F A	and Holton, Pamela The vasodilator activity of spinal roots	116, 35 <i>P</i> , 1951
**	and Holton, Pamela The vasodilator activity of spinal roots	118, 310, 1952
**	and Holton, Pamela The possibility that ATP is a transmitter at sensory nerve endings and Holton Pamela The capillary dilator sub	119 50P, 1952
"	stances in dry powders of spinal roots a possible role of adenosine triphosphate in chemical trans mission from nerve endings	<b>126</b> , 124, 1954
HOLTON, PAMELA	Holton, F A and The vasodilator activity of spinal roots	116 35P, 1951
"	Hilton S M and Some observations on vascular responses in the rabbit s car	117 50P, 1952

HOLTON, PAMELA	Hilton, S M and The site of antidromic vaso dilatation in the rabbit's ear (T)	118, 44 <i>P</i> , 1952
,,	Holton, F A and The vasodilator activity of spinal roots	118, 310, 1952
**	Hollon F A and The possibility that ATP is a transmitter at sensory nerve endings	119, 50 <i>P</i> , 1952
17	Antidromic vasodilatation and inhibitors of cholinesterase	120, 95, 1953
"	Harris, G W and Vasodilator activity in extracts of various regions of the central nervous system	120, 254, 1953
,	Observations in support of Bayliss's hypothesis on reflex antidromic vasodilatation (T)  Hillon, S. M. and Antidromic vasodilatation and	122, 34P, 1953
,	blood flow in the rabbit s ear  Holton F A and The capillary dilator substances	125, 138, 1954
"	in dry powders of spinal roots, a possible role of adenosine triphosphate in chemical transmission from nerve endings	<b>126,</b> 124, 1954
"	Antidromic vasodilatation in the isolated rabbit's ear	129 75P, 1955
"	Antidromic vasodilatation in the isolated per fused ear of the rabbit	131, 176, 1956
Holzbauer Margarethe	and Vogt Marthe Adrenalme estimations in peri pheral blood during insulin hypoglycaemia	125, 32 <i>P</i> , 1945
Hovgo, T T	and Lucl, C P The circulation in the tail of a monkey (Cercopithecus pygerythrus)	122, 570, 1953
Ho\our A J	Edwards, D A W —— and Rowlands, E N  Method for recording rapid changes of pressure in the human gut	120, 36 <i>P</i> , 1953
Ноор, Ј D	Byford G H Hallpile C S and A new type of rotating chair for the investigation of semi-circular canal function and Pfaltz C R Observations upon the so-called	123, 22 <i>P</i> , 1953
29	habituation phenomenon in rotator, and calonic nystagmus and Pfaltz C R Observations upon the effects of repeated stimulation upon rotational and colaric	123, 33 <i>P</i> 1953
Naca D	nvstagmus	124 130, 1954
Hooper J V D	ORT Human foetal movements (Film) (T)  Cross, K W —— and Oppé, T E The effect of	132, 5P, 1956
	carbon dioxide on the respiration of the full term and premature infant  Cross K W, — and Lord Josephine M The effect of carbon dioxide on the respiration of the	119, 11 <i>P</i> , 1952
,	hypoxic infant  Cross K W —— and Oppé, T E The effect of inhalation of carbon dioxide in air on the respiration of the full term and premature infant.	122 29 P, 1953
•	Cross K W — and Lord Josephine M Anoxic depression of the medulla in the new born infant	122, 264, 1953
Hoorov L.N	Bulbring Edith and Smooth muscle potentials recorded with intracellular electrodes	125 628, 1954
	smooth muscle fibres in the rabbit's sphinotes	120, 8 <i>P</i> , 1953
7	pupillae	125, 292, 1954

#### JOURNAL OF PHYSIOLOGY

Hope, D B	Blaschko, H and Enzymic decarboxylation of cysteic and cysteine sulphinic acids	126, 52 <i>P</i> , 1954
"	Blaschko, H and The oxidation of L amino acids in the digestive gland of Mytilus edulis	129, 11 <i>P</i> , 1955
Hopkinson, Leonora	and Kerly, Margaret The effect of oestrone and of insulin on the metabolism of isolated rat uterus and Kerly, Margaret The interaction of insulin, oestrone and progesterone on the metabolism of	<b>122,</b> 40 <i>P</i> , 1953
T	isolated rat uterus	128, 113, 1955
Horowicz, P	Cook, R H, Hodgkin, A L and The effect of rapid changes in ionic concentration on the tension produced by single muscle fibres (T)	133, 27 <i>P</i> , 1956
"	Dolivo, M, —, Larrabee, M G and Stehiel, W Metabolic substrates in mammalian sympathetic ganglia	133, 52 <i>P</i> , 1956
Horvath, S M	, Hutt, B K, Knapp, Doris W and Werner, Attie Yvonne Studies of bromsulphalein and cardiac output in the hepatectomized dog	119, 129, 1953
Hough, L	and Rogers, A F Synthesis of amino acids from water, hydrogen, methane and ammonia	<b>132</b> , 28 <i>P</i> , 1956
Houslip, R C	and Underwood, C R Electrical impedance of the Jason element as an index of atmospheric humidity (T)	<b>127</b> , 45 <i>P</i> , 1955
Howard, E M	Buttle, G A H, D'Arcy, P F and The effect of cortisoné acetate in protecting adrenalectomized and normal mice against cold stress	123, 5 <i>P</i> , 1953
Howard, P	Dornhorst, A. C., —— and Leathart, G. L. Respiratory variations in human blood pressure (T)	116, 3 <i>P</i> , 1951
"	Fryer, D I and A method for the analysis of the functioning of oxygen equipment  The significance of the changes in arterial blood	123, 16P, 1953
~ 7	pressure during pressure breathing	123, 36 <i>P</i> , 1953
Howarth, F	The infused living cat (T)  Grundy, H F and General pharmacology of oenanthotoxin	122, 47 P, 1953 129, 79 P, 1955
Howarth, J V	Hill, A V and Muscle heat production recorded on a smoked drum (T)	128, 37 <i>P</i> , 1955
Howarth, V	The effect of hypertonic solution on the load velocity ratio in isotonic contraction (T)	132, 33 <i>P</i> , 1956
Номат, Н Т	Duncan, P R, Evans, D G, Harper, A A, ——, Oleesky, S, Scott, J E and Varley H The use of the cholecystokinetic agent in preparations of pancreozymin to study gall bladder function in	
"	man and Schofield, B The effect of urogastrone, entero gastrone and mepyramine maleate on gastric and pancreatic secretion	121, 19 <i>P</i> , 1953 123, 1, 1954
Howe, A	Diamond, J and A study of certain aortic bodies in the cat	128, 76 <i>P</i> , 1955
"	Birbeck, M S C, — and Richardson, K C Quantitative observations on mitochondria in	
**	the guinea pig mammary gland (T) and Pearse, A G E A histochemical investigation of neurosecretory substance in the rat	130, 22 <i>P</i> , 1955 133, 41 <i>P</i> , 1956

Howe, A.	The vasculature of the aortic bodies in the cat Diamond, J and Chemoreceptor activity in the	134, 311, 1956
<i>"</i>	aortic bodies of the cat	134, 319, 1956
Howell, F R	and Richards, T G The determination of pressure- volume changes in the femoral tree of the cat in relation to vascular tonus and the resistance offered to blood flow	130, 414, 1955
Howell, J B L	Green, J H and Correlation of respiratory air flow, using a new pneumotachograph, with intercostal muscle activity and Peclett, B W A method of measuring the	130, 33 <i>P</i> , 1955
	compliance of the isolated lungs and its applica cation to anaesthetized subjects (T) and Peclett, B W Compliance studies in anaes	130, 34P, 1955
"	thetized paralysed human subjects	133, 22P, 1956
Howie, J B	Barer, R, —, Ross, K F A and Thaceyl, S Applications of refractometry in haematology	120, 67 <i>P</i> , 1953
Howland, B	, Lettern J Y McCulloch, W S, Putts, W and Wall, P D On microelectrodes for plotting currents in nervous tissue	122, 24 <i>P</i> , 1953
Hovle G	Intracellular recording of 'slow and 'fast fibre activity from an insect muscle	121, 32 <i>P</i> , 1953
29	del Castillo, J , —— and Machne, Xema Neuro- muscular transmission in a locust	121, 539, 1953
,,	The effects of some common cations on neuro muscular transmission in insects	127, 90, 1955
"	Neuromuscular transmission in two non specialized locust limb muscles—each having 'slow' and fast mechanisms (T)	129 58 <i>P</i> , 1955
HSIEH A C L	Gould, D W, — and Tincller L F The behaviour of the isolated water buffalo ureter Gould, D W, — and Tincller, L F The be	<b>12</b> 9, 425 1955
77	haviour of the intact ureter in dogs, rabbits and rats	170 400 10
,	Gould D W —— and Tinckler, L F The effect of posture on bladder pressure	129, 436, 1955
HUBBARD S J	The mechanical properties of Pacinian cormiscles	129, 448, 1955 132, 23 <i>P</i> , 1956
Нувы, D H.	Fuortes M G F and A comparison of flexor and extensor reflexes of muscular origin	133, 446, 1956
Huggert, A. St (	Nixon D A and Widdas, W F Placental production of glucose and fructose in the sheep	110 FOR 10TO
	Widdas W F Perfusion of the placents in the sheep through the unbilled arteries	***
	Fahmy A and Comparative histochemistry of carbohydrate in the placenta (T)	120, 22P, 1953
,	Chinard, F. P., Danesino, V., —, Paul, W. M. and Reynolds, S. R. M. The passage of grant	
	Alexander, D Pauline Andrews R D,,  Nixon D A and Widdas, W F The placental transfer of sugars in the sheep studies,	127, 8P, 1954.
	radioactive sugar	129, 352, 1955

Huggett, A St G Alexander, D Pauline, ---, Nixon, D A and

Hoddell, A bi d	Widdas, W F The placental transfer of sugars in the sheep the influence of concentration gradient upon the rates of hexose formation as	<b>,</b>
_	shown in umbilical perfusion of the placenta and Morrison, S D Placental glycogen in the	<b>129,</b> 367, 19 <sub>0</sub> 5
"	rabbit  Alexander, D Pauline, —, Nixon, D A and	129, 68P, 1955
"	Widdas, W F The collection of foetal urine in the sheep (T)	
,,	The determination of blood glucose with benzidine	
"	Danesino, V, Hartmann W L — and Paul, W The passage of sugars across the human pla centa (T)	<b>132</b> , 12 <i>P</i> , 1956
"	Chinard, F P, Danesino, V, Hartmann, W L, —, Paul, W and Reynolds, S R M The trans mission of hexoses across the placenta in the human and the rhesus monkey (Macaca mulatta)	132, 289, 1956
Hughes, A F W	and Willmer, $E$ $N$ Movement in isolated sponge cells (Film) (T)	<b>125</b> , 15 <i>P</i> , 1954
Hughes, B	and McDowall, $R$ $J$ $S$ The action of D tubo curarine chloride in the rat oesophagus preparation	<b>123</b> , 1 <i>P</i> , 1953
Hughes, F Barbara	The muscularis mucosae of the oesophagus of the cat, rabbit and rat	<b>130</b> , 123, 1955
"	, McDowall, R J S and Soliman, A A I Sodium chloride and smooth muscle	134, 257, 1956
Hughes, R	, May, A J and Widdicombe, J G Efficiency of filtration by the popliteal lymph node of the rabbit	<b>130</b> , 40 <i>P</i> , 1955
"	, May, A J and Widdicombe, J G The output of lymphocytes from the lymphatic system of the rabbit	<b>132,</b> 384, 1956
Hughes, W Howard	Campbell, Josephine —— and Stewart H C In fluence of osmosis on gut response (T)	120 22P, 1953
Hugues, J	Bounameaux, $Y$ , — and Lecomte, $J$ Histamine and platelet adhesiveness	126, 15P, 1954
Hulse, E V	Duguid, J. B., —, Richardson, M. W. and Young, A. E. A method of calculating the respiratory surface area of the lung	<b>121</b> , 8 <i>P</i> , 1953
Нимрикех, Ј Н	and Jacques, R Liberation of histamine and sero tonin from platelets by antigen antibody reactions in vitro	119, 43 <i>P</i> , 1952
,,	and Toh C C Absorption of serotonin (5 hydroxy tryptamine) and histamine by dog platelets	124, 300, 1954
"	and Jaques, R The histamine and serotonin content of the platelets and polymorphonuclear leucocytes of various species	<b>124</b> 305, 1954
,,	and Jaques, R The release of histamine and 5 hydroxytryptamine (serotonin) from platelets by antigen antibody reactions (in vitro)	<b>128,</b> 9, 1955
"	Brocklehurst, W E, — and Perry, W L M The role of histamine in cutaneous antigen antibody reactions in the rat	129, 205, 1955

Hent 6 6	The effect of sire ch receptors from muscle on the discharge of mo ensurones and Kumer Stephen II. Motor innertation of	117 \$50 1052
~	che's all mustle multiple innertal on of indi- ridual mustle fibres and mo or unit function	126 293 1954
HCL Y Z		117 280 1052
••	or i Monocoll I The influence of the volume of a test meal on gasture emptying (T) A may had for turning chloride in small volumes	120 23P 1955
	of gestro score, on (L)  A homo with an exhaustral onthom as used in	123 NP 104
••	green-interioral studies (T) Some fac ors influencing the resentive pattern of	123 NP 10M
<b>&gt;</b>	the intestine (T) as Maximald I The influence of volume on	123 55P 1934
94	gastre emp. ting	126 450 1054
**	The source of the scid in the urine of man (T)  Bond Active: M and The influence of fluoride on	127 42P 1054
**	the secretion of the electrolic earlier of the annual of the electrolic earlier of ele	128 30P 1055
<b>y</b>	Alimentary osmorsception (T)	131 20P 1056
••	Some properties of an alimentary osmoreceptor	
	mechanism  Bergi Audres M and The effect of sodium fluoride	132 207 1056
**	on the output of some electrolytes from the	
	ENT TO MUCOSO OF CO 8	133 317 1956
HUNTER, G. L.	Adams C E — and Rosson L E Maternal influence on transplanted eggs (T)	125 15P 1954
HUNTER, R B	Shepterd D W and West G B Organs of Zuckerkandi	116 6P 1951
,	Me wreger Agnes R Stephent D W or I West G B The organs of Zuckerkandl and the supra- renal medulla	118 11 <i>P</i> 1052
Нс <del>гг</del> В К	Herorth S. M. — Knopp Dorse W and Wester After Farmer Studies on bromsulphalein and curdies output in the hepsatectomized dog	119 120 1053
HUTTER O F	Effect of choline or neuromuscular transmission in	113 174 1472
	the est  Post to anic restoration of neuromuscular trans	117 241 1952
25	mission blocked by a tubocurarine and Kos ad Kris 7. Effect of magnesium ions upon	118 216 1952
	the release of ace victoline  Big'n a Brenda — and Linguit O C 1 Action	120 53P 1053
	potentials and tension in mammalian nerve- mus le preparations and Ke tial Krista. Effect of magnesium and	121 33 P 1020
	calcium ions on the release of acetyleroline and Kocial Kin a Tre relaineship of sodium	*34 304
	o a Tro: vin W Varil effects on the sing-	*30
	a x2 Long with the reg a heart	129 48P 1033
**	facilitation by sympa he're stimulation in the frog and Lorents can W. F. The nature of the neuro	130 750 1075
	muscular facilita ion produced by sympathetic stimulation in the frog (T)	130 49 <i>P</i> 1955

HUTTER, O F	and Trautwein, W Neuromuscular facilitation by stretch of motor nerve endings	<b>131,</b> 18 <i>P</i> , 1956
"	and Padsha, S M Effect of nitrate on the electro tonic potential of muscle (T)	132, 32 <i>P</i> , 1956
"	and Trautwein, W Neuromuscular facilitation by stretch of motor nerve endings	
"	Harris, E J and The action of acetylcholine on the movements of potassium ions in the sinus venosus of the heart	
HUXLEY, A F	Hodgkin, A L, —— and Katz, B Measurement of current voltage relations in the membrane of the giant axon of Loligo	116, 424, 1952
**	Hodgkin, A L and Currents carried by sodium and potassium ions through the membrane of the	
**	giant axon of Loligo  Hodgkin, A L and The components of membrane conductance in the giant axon of Loligo	116, 449, 1952 116, 473, 1952
"	Hodgkin, A L and The dual effect of membrane potential on sodium conductance in the giant	116, 497, 1952
,,	axon of Loligo Applications of an interference microscope	117, 52P, 1952
"	Measurements on diffraction spectra of single muscle fibres (T)	117, 53P, 1952
,	Hodgkin, A L and A quantitative description of membrane current and its application to con- duction and excitation in nerve	117, 500, 1952
,,	Hodgkin, A L and Movement of radioactive potassium and membrane current in a giant axon	121, 403, 1953
**	and Niedergerke, R Measurement of muscle structions in stretch and contraction	124, 46P, 1954
**	A high power interference microscope	125, 11 P, 1954 130, 49 P, 1955
"	and Taylor, R E Activation of a single sarcomere A new muscle preparation isolated fibres from the crab (T)	130, 45 <i>P</i> , 1956
Hyde J	Gellhorn, E and Influence of proprioception on map of cortical responses	122, 371, 1953
Hyndman, S H	and Smyth, D H A new type of visual aid for demonstration of comparisons or of rhythmic processes	128 66 <i>P</i> , 1955
,,	and Smyth, D H Some polarized transparencies and lantern slides of physiological interest (T)	128, 66 <i>P</i> , 1955
IBALL, J	Clark, Sheena M and An X ray diffraction study of the structure of bone sections (T)	<b>130,</b> 8 <i>P</i> , 1955
IBRAHIM, M	Barclay, J A and Effect of diuresis on excretion of salts	116, 8 <i>P</i> , 1951
,,	Barclay, J A and Cold infusion and renal function	117, 29 <i>P</i> , 1952
Iggo, A.	Receptors in the stomach and the bladder Tension receptors in the stomach and the urinary	126, 29 <i>P</i> , 1954
,,	bladder Central nervous control of gastric movements in	128, 593, 1955
The man is a second 117	sheep and goats  Graff, Jean A E, —, Lehmann H, Mourant	131 248, 1956
Irin, Elizabeth W	A E, Parkin, Dorothy M and Wickremasinghe R L Haemoglobin E and blood groups in the Veddas	127, 41 P, 1954

	24,7	
Ingram, P W	PIOSSOLPHONE OF Separts became	128, 26P, 1955
INMAN, D R	Diamond, J, Featherstone, R, Gray, J A B and The perfusion of a Pacinian corpuscle	132, 27 <i>P</i> , 1956
Innes, I R	and Kosterlitz, H W The action of ephedrine, amy locaine and cocaine on the responses of acutely and chronically denervated nictitating mem branes to adrenaline, noradrenaline and 3 4-di hydroxynorephedrine	118, 28 <i>P</i> , 1952
"	and Kosterlitz, H W The changes in the responses of the nictitating membrane to adrenaline, nor adrenaline and tyramine during the first two days after preganglionic and postganglionic	
"	denervation (T)  Griffith, H D, — and Kosterlitz, H W The use of the condenser manometer for measuring the	119, 51 P, 1952
>>	heart rate and Kosterlitz, H W The actions of some deriva tives of adrenaline and noradrenaline on the nictitating membrane and the heart rate of the	121, 29 <i>P</i> , 1953
"	cat and Kosierlitz, H W The action of sympatho mimetic amines on the rate of the denervated	122, 60 <i>P</i> , 1953
"	heart of the cat  and Kosterlitz, H W The effects of preganglionic and postganglionic denervation on the responses of the nicitating membrane to sympathom	124, 17, 1954
,	metic substances and Kosterlitz, H W Increase in heart rate as an	124, 25, 1954
"	after effect of vagus stimulation (T), Kosterlitz, H W and Robinson, Judith A Some properties of the longitudinal muscle of the guinea pig ileum	130, 22 <i>P</i> , 1955 133, 6 <i>P</i> , 1956
IRVINE W T	Code, C F and The output of HCl in gastric juice and free histamine in urine during stimulation of gastric secretion	<b>133</b> , 51 P, 1956
Ives, F	Ballhatchet, F, —— and Wenton, F R A recording flowmeter	124, 10 <i>P</i> , 1954
"	Ballhatchet, F, — and Winton, F R All plastic perfusion pumps	132, 32P, 1956
Jackson, C V Jackson, D Mar		<b>122,</b> 582, 1953
,	on relative red cell volume and Nutt, Marjoric E Packed cell volume determi- nation as an alternative to red cell counts in normal subjects	124, 107, 1954
Jackson, D S	, Kellgren, J H, Slack, H G B and Williams, G A biochemical and histological study of local connective tissue proliferation following sub cutaneous injection, into guinea pigs, of car rageenin, a sulphated polygalactose (T)	,
Jacobs, S	Preparation of conductivity water (T)	132, 54P, 1956
Jacobson, W	A folic acid derivative functioning during cell division	454
**	The mode of action of folic acid antagonists on cells	122, 40 <i>P</i> , 1953 123, 603, 1954

## JOURNAL OF PHYSIOLOGY

Jacobson, W	The function of the Leuconostoc citrovorum factor in cell division and the inactivation of amino	
,,	pterin The yellow pigment of the argentaffine cells of the	
	mammalian gastro intestinal tract	125, 22P, 19 <sub>0</sub> 4
JACOB1, F	Mitotic activity in the gall bladder epithelium of the guinea pig after ligation of the common bile duct Culture of whole gall bladders in vitro	
James, Dinah M	Graham, J D P and The glycaemic response of rabbits to L adrenaline and L noradrenaline and the effect thereon of dimercaprol	
James, D W	Harkness, Margaret L R, Harkness, R D and Effect of protein free diet on total body collagen	128, 15 <i>P</i> , 1955
Jaques, R	Humphrey, J H and Liberation of histamine and serotonin from platelets by antigen antibody reactions in vitro	<b>119</b> , 43 <i>P</i> , 1952
,,	Humphrey, J H and The histamine and serotonin content of the platelets and polymorphonuclear leucocytes of various species	<b>124</b> , 305, 1954
"	Humphrey, J H and The release of histamine and 5 hydroxytryptamine (serotonin) from platelets by antigen antibody reactions (in vitro)	<b>128,</b> 9, 1955
JARRETT, A S	The effect of acetylcholine on touch receptors in frog s skin	<b>129,</b> 17 P, 1955
,,	The effect of acetylcholine on touch receptors in frog's skin	133, 243, 1956
Jasper, Herbert	Li, Choh Luh and Microelectrode studies of the electrical activity of the cerebral cortex in the cat	<b>121,</b> 117, 1953
Jefferson, A A	Benson, $A$ $J$ and Quantitative aspects of the monosynaptic reflex	118, 44 <i>P</i> , 1952
JEFFRIES, G H	The effect of varying glucose concentrations on the mammalian end plate potential	120, 611, 1953
Jehring, Barbara	Bigland Brenda and Muscle performance in rats, normal and treated with growth hormone	<b>116,</b> 129, 1952
JENKINS, G N	and Wright D E Leucocytes in saliva	121, 12P, 1953
**	and Spiers, R L Distribution of fluorine in human enamel	<b>121,</b> 21 P 1953
JENNER, F A	and Smyth, D H Effect of phlorhizm on bile glucose	133, 20 <i>P</i> , 1956
Jennings, D B	Hatcher J D and The rate of blood flow in the calf and paw of anaesthetized dogs measured by the venous occlusion plethysmograph technique with observations on the effects of intravenous infusions of adrenaline and noradrenaline	134, 19 <i>P</i> , 1956
Jennings, F W	, Lauder, I M and Mulligan, W Isotopic methods in blood volume determinations on domestic	
	anımals	121, 53P, 1953
JEPSON, J B	Argent D E Armstrong, Destrée, —, Keele C A and Phillips, L A Pain producing substance in inflammatory exudates	124, 18 <i>P</i> , 195‡
,,	Armstrong, Desirée -, Keele, C A Stewart	,,
"	J W and Wilson, C W M The delayed pain of thermal burns (T)	<b>128</b> 59 P, 1955

	11,222	
JEPSON J B	Armstrong, Desirée, —, Keele, C A and Stewart, J W Activation by glass of pharmacologically active agents in blood of various species Principles of chromatography (Film) (T) Armstrong, Desirée, —, Keele C A and Stewart,	129, 80 <i>P</i> , 1955 130, 32 <i>P</i> , 1955
,,	J II Activation of pre-active human plasma to produce a bradykinin like substance (T)	130, 33 <i>P</i> , 1955
JEREMY, D	Bishop, P O, — and Lance J W The optic nerve Properties of a central tract	121, 415, 1953
Jervis, E Lesly	, Sheff, M F and Smyth, D H Phlorhizin inhibition of glucose absorption in vivo , Johnson, F R, Sheff, M F and Smyth, D H The effect of phlorhizin on intestinal absorption and	131, 16 <i>P</i> , 1956
	intestinal phosphatase	134, 675, 1956
JESSOP W J E	Bradshaw T E and The excretion of oestrogens and pregnanediol during the last three weeks of pregnancy and the first week after delivery in fourteen normal women (T)  The intake of phytate, milk and vitamin D in relation to rickets in children—the end of an	116, 10 <i>P</i> , 1951
	experiment in human nutrition (T)	125, 64P, 1954
Jewell, P A.	Some observations upon the vesicular structures in the hypothalamus of the dog (T) and Zaimis, Eleanor J. A differentiation between	117, 62P, 1952
,	red and white muscle in the cat based on responses to neuromuscular blocking agents and Zaimis, Eleanor J Changes at the neuro muscular junction of red and white muscle fibres in the cat induced by disuse atrophy and by	120, 47 <i>P</i> , 1953
	hypertrophy	120 48P, 1953
53	The occurrence of vesiculated neurones in the hypothalamus of the dog	121, 167, 1953
"	and Zaimis, Eleanor J A differentiation between red and white muscle in the cat based on	
11	responses to neuromuscular blocking agents and Zaimis Eleanor J Changes at the neuro muscular junction of red and white muscle fibres in the cat induced by disuse atrophy and by	124, 417 1954
,	hypertrophy Andersson B and The effects of continuous hydration upon the 'neurosecretory' material in	124 429, 1954
JIELOF RENSKE	the hypothalamus of the dog (T)	133, 41 <i>P</i> , 1956
SHEW THE SEE	Spoor $A$ and de Vries $H$ The microphonic activity of the lateral line	116 127 1070
Јов C	and Lundberg 4 Presynaptic facilitation in the sympathetic ganglion of the cat	116 137, 1952
Joenes A VI	Dempster, W J and Emotional antidiuresis in the autotransplanted kidney	117, 61 <i>P</i> 1952
Joels X	and Samueloff, M Diffusion respiration in the dog	128, 122, 1955
	(T)  Graham G R and The different effects on ventral cular depolarization and repolarization of two methods of resolutions and repolarization of two	130 34P 1955
	and Samueloff M. The metabolic	130, 39P, 1955
	respiratory centre activity in diffusion respiration	130, 52 <i>P</i> , 1955

Joels, N	and Samueloff, M Metabolic acidosis in diffusion respiration	122 947 1056
,,	and Samueloff, M The activity of the medullary centres in diffusion respiration	133, 347, 1956 133, 360, 1956
Johnels, A	Augustinsson, K B, Fänge, R, —— and Östlund, E Histological, physiological and biochemical studies on the heart of two cyclostomes, hagfish (Myxine) and lamprey (Lampetra)	131, 257, 1956
Johnson, B K	Dobrowolski, J. A., —— and Tansley, Katharine The spectral absorption of the photopigment of Xenopus laevis measured in single rods	<b>130</b> , 533, 1955
Johnson, D H	Grayson, J and The effect of adrenaline on liver blood flow in the rat and the rabbit	116, 25 <i>P</i> , 1951
,,	Ginsburg, M, Grayson, J and The nervous regulation of liver blood flow	117, 74 <i>P</i> , 1952
"	The measurement of local effective hepatic resistance to portal flow in the rat Liver blood flow in the hypotensive rat Grayson, J and The effect of adrenaline and nor	120, 1 <i>P</i> , 1953 120, 57 <i>P</i> , 1953
"	adrenaline on the liver blood flow  The effect of haemorrhage and hypotension on the	120, 73, 1953
Johnson, E P	liver blood flow  Armington, J. C., —— and Riggs, L. A. The scotopic	<b>126,</b> 413, 1954
	$\boldsymbol{A}$ wave in the electrical response of the human retina	118, 289, 1952
Johnson, F R	f and Kugler, $J$ Distribution of alkaline phosphatase in the small intestine (T)	128, 63 <i>P</i> , 1955
**	and McMenn, R M H Healing of artificial ulcors in the urinary bladder (T)	128, 63 <i>P</i> , 1955
"	and McMinn, R M H Fate of transplants of transitional epithelium and the production of heterotopic bone (T)  Jerus, E Lesly, —, Sheff, M F and Smyth,	<b>128,</b> 63 <i>P</i> , 1955
	$D\ H$ The effect of phlorhizm on intestinal absorption and intestinal phosphatase	134, 675, 1956
Johnson, W G H	Cunningham, D J C, — and Lloyd, B B A modified 'Cormack' respiratory valve	133, 32 <i>P</i> , 1956
Jones, J J	and McDowall, $R \ J \ S$ The action of adrenaline on the vasomotor mechanism	134, 8 <i>P</i> , 1956
Jones, R M	Hellon, R. F., —, Macpherson, R. K. and Weiner, J. S. Natural and artificial acclimatization to hot environments	<b>132,</b> 559, 1956
Joseph, J	and Nightingale, A Electromyographic studies of the leg muscles in posture (T)	117, 9 <i>P</i> , 1952
,,	and Nightingale, A Electromyography of muscles of posture leg muscles in males	117, 484, 1952
,,	and Nightingale, A Electromy ography of postural muscles—leg and thigh (Film) and Nightingale, A Electromy ography of muscles	123, 53P, 1954
"	of posture thigh muscles in males  Nightingale, A and Williams, P L A detailed	126, 81, 1954
,,	study of the electric potentials recorded over some postural muscles while relaxed and standing and Nightingale, A Electromyography of muscles	127, 617, 1955
"	of posture leg and thigh muscles in women, including the effects of high heels	132, 465, 1956

	INDEA OF HUTHORS	
Joseph, S	Barer, R and Observations on the physical state of chromosomes	132, 34 <i>P</i> , 1956
JOYCE, C R B	and Weatherall, M Cardiac glycosides and the potassium exchange of human erythrocytes	127, 33P, 1954
Joynt, R J	Microelectrode recording of cerebellar activity in frogs (T)	125, 14 <i>P</i> , 1954
Камра, Ециаветн М.	New forms of visual purple from the retinas of certain marine fishes a re-examination	119, 400, 1953
KANE, F	The nerve cells of the pigs circumvaliate papilla Concerning the existence of two types of ganglion nerve cells	118, 62 <i>P</i> , 1952 125, 64 <i>P</i> , 1954
KARVONEN, M J	Factor analysis of haematological changes in heavy muscular work (T)	<b>121</b> , 22 <i>P</i> , 1953
Katz, B	Hodghin, A. L., Huzley, A. F. and Measurement of current-voltage relations in the membrane of the giant axon of Loligo Fatt, P. and Electric responses of single crusta	116, 424, 1952
"	cean muscle fibres  Fatt, P and Spontaneous subthreshold activity at	117, 15 <i>P</i> , 1952
"	motor nerve endings  Fatt, P and The action of inhibitory nerve im  pulses on the surface membrane of crustacean	117, 109, 1952
**	muscle fibres  Fatt P and The effect of sodium ions on neuro muscular transmission	118, 47 <i>P</i> , 1952
"	del Castillo J and Statistical aspects of trans mission at a single nerve muscle junction	118, 73, 1952 120, 32 <i>P</i> , 1953
"	Fatt, P and The electrical properties of crustacean muscle fibres	120, 171, 1953
"	Fatt P and The effect of inhibitory nerve impulses on a crustacean muscle fibre	121, 374, 1953
"	Burke W —— and Machne, Xenia The effect of quaternary ammonium ions on crustacean nerve	
"	fibres  del Castillo, J and The failure of local circuit  transmission at the nerve muscle junction	122, 588, 1953
,	del Castillo, J and Facilitation at the nerve muscle junction due to anodic polarization of nerve endings	123, 7 <i>P</i> , 1953
11	del Castillo, J and Potential and resistance changes at the motor end plate	123, 8 <i>P</i> , 1953 123, 70 <i>P</i> , 1954
***	del Castillo, J and Electrotonic changes in the random activity of motor nerve endings (T)	124, 2P, 1954
19	del Castillo, J and The effect of magnesium on the activity of motor nerve endings	124, 553, 1954
11	del Castillo J and Quantal components of the end plate potential del Castillo J and Statistical factors involved in	124, 560, 1954
,	del Castillo, J and Changes in end plate activity	124, 574, 1954
**	produced by pre synaptic polarization del Castillo J and Electrophoretic application of acetylcholine to the two sides of the end plate	124 586, 1954
,	del Castillo J and The membrane change are	125, 16 <i>P</i> , 1954
	duced by the neuromuscular transmitter	125, 546, 1954

Katz, B	del Castillo, J and Action, and spontaneous release, of acetylcholine at an 'inexcitable' nerve	
	muscle junction	126, 27P, 1954
,,	del Castillo, J and Ionophoretic application of acetylcholine to motor end plates (T) del Castillo, J and On the localization of acetyl	<b>128, 31</b> <i>P</i> , 1955
,,	choline receptors	<b>128</b> , 157, 1955
"	del Castillo, J and Local activity at a depolarized nerve muscle junction	<b>128</b> , <b>3</b> 96, 1955
"	del Castillo, J and Effects of vagal and sym pathetic nerve impulses on the membrane potential of the frog s heart	129, 48 <i>P</i> , 1955
,,	A note on electric recording from myoneural junctions	131, 665, 1956
"	del Castillo, J and Electrophoretic application of tubocurarine to single end plates (T)	132, 32 <i>P</i> , 1956
"	del Castillo, J and Localization of active spots within the neuromuscular junction of the frog	<b>132</b> , 630, 1956
Kay, R H	Banister, P G, Coxon, R V and Continuous recording of oxygen concentration in gas mixtures Coxon, R V and Continuous simultaneous re	<b>126,</b> 10 <i>P</i> 1954
n	cording of oxygen tension in inspired air by a new magnetic meter and in the subcutaneous tissue by polarographic electrode (T)  Cozon, R V and The optical properties of whole blood studied in glass cells by filter photometry	<b>129,</b> 7 <i>P</i> , 1955
	as a basis for the interpretation of oxymetric data (T)	<b>133</b> , 6 <i>P</i> , 1956
Kay, R N B	The effect of sympathetic stimulation on the flow of parotid saliva in the sheep	<b>125</b> , 24 <i>P</i> , 1954
KAY, R N B	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep	125, 24 <i>P</i> , 1954 129, 55 <i>P</i> , 1955
·	of parotid saliva in the sheep $Comline, R S$ and Reflex secretion by the parotid	
"	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital capacity	<b>129</b> , 55 <i>P</i> , 1955
"	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital	129, 55 <i>P</i> , 1955 130, 15 <i>P</i> , 1955
,, ,, Kazantzis, G	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital capacity  Bernstein, L and The prediction of maximum ventilatory capacity from fast vital capacity	129, 55 <i>P</i> , 1955 130, 15 <i>P</i> , 1955 122, 77 <i>P</i> , 1953
,, ,, Kazantzis, G	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital capacity  Bernstein, L and The prediction of maximum ventilatory capacity from fast vital capacity records  Brown, G L and A method for perfusing ab dominal sympathetic ganglia (T)  Armstrong, Desirée, Dry R M L —— and Markham J W Pain producing substances in blister fluid and in serum	129, 55 <i>P</i> , 1955 130, 15 <i>P</i> , 1955 122, 77 <i>P</i> , 1953 122, 78 <i>P</i> , 1953
" KAZANTZIS, G " KEARNEY, A P	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital capacity  Bernstein, L and The prediction of maximum ventilatory capacity from fast vital capacity records  Brown, G L and A method for perfusing ab dominal sympathetic ganglia (T)  Armstrong, Desirée, Dry R M L —— and Markham J W Pain producing substances in blister fluid and in serum  Armstrong, Desirée, Dry R M L, —— and Markham, J W Pain producing actions of tryptamine and 5 hydroxytryptamine	129, 55 P, 1955 130, 15 P, 1955 122, 77 P, 1953 122, 78 P, 1953 120, 43 P, 1953
"  KAZANTZIS, G  "  KEARNEY, A P  KEELE, C A	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital capacity  Bernetein, L and The prediction of maximum ventilatory capacity from fast vital capacity records  Brown, G L and A method for perfusing ab dominal sympathetic ganglia (T)  Armstrong, Desirée, Dry R M L —— and Markham J W Pain producing substances in blister fluid and in serum  Armstrong, Desirée, Dry R M L, —— and Markham, J W Pain producing actions of tryptamine and 5 hydroxytryptamine  Hobbyer F and Effects of infusion of 5 hydroxytryptamine (serotonin) on the blood pressure of	129, 55 <i>P</i> , 1955 130, 15 <i>P</i> , 1955 122, 77 <i>P</i> , 1953 122, 78 <i>P</i> , 1953 120, 43 <i>P</i> , 1953 117, 4 <i>P</i> , 1952
"  KAZANTZIS, G  "  KEARNEY, A P  KEELE, C A	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital capacity  Bernstein, L and The prediction of maximum ventilatory capacity from fast vital capacity records  Brown, G L and A method for perfusing ab dominal sympathetic ganglia (T)  Armstrong, Desirée, Dry R M L — and Markham J W Pain producing substances in blister fluid and in serum  Armstrong, Desirée, Dry R M L, — and Markham, J W Pain producing actions of tryptamine and 5 hydroxytryptamine  Hobbiger F and Effects of infusion of 5 hydroxy tryptamine (serotonin) on the blood pressure of the cat (T)  Armstrong, Desirée, and The relation of chemical structure to pain producing action of certain	129, 55 <i>P</i> , 1955 130, 15 <i>P</i> , 1955 122, 77 <i>P</i> , 1953 122, 78 <i>P</i> , 1953 120, 43 <i>P</i> , 1953 117, 4 <i>P</i> , 1952 117, 70 <i>P</i> , 1952 119, 31 <i>P</i> , 1952
"  KAZANTZIS, G  "  KEARNEY, A P  KEELE, C A  "	of parotid saliva in the sheep  Comline, R S and Reflex secretion by the parotid gland of the sheep  The action of adrenaline on the flow of parotid saliva in sheep  The time factor in the expiration of the vital capacity  Bernstein, L and The prediction of maximum ventilatory capacity from fast vital capacity records  Brown, G L and A method for perfusing ab dominal sympathetic ganglia (T)  Armstrong, Desirée, Dry R M L — and Markham J W Pain producing substances in blister fluid and in serum  Armstrong, Desirée, Dry R M L, — and Markham, J W Pain producing actions of tryptamine and 5 hydroxytryptamine  Hobbiger F and Effects of infusion of 5 hydroxy tryptamine (serotonin) on the blood pressure of the cat (T)  Armstrong, Desirée, and The relation of chemical	129, 55 <i>P</i> , 1955 130, 15 <i>P</i> , 1955 122, 77 <i>P</i> , 1953 122, 78 <i>P</i> , 1953 120, 43 <i>P</i> , 1953 117, 4 <i>P</i> , 1952 117, 70 <i>P</i> , 1952

118 25P 1952

KEELE, C A.	Argent, D E, Armstrong, Desirée, Jepson, J B, — and Phillips, L A Pain producing sub stance in inflammatory exudates  Armstrong, Desirée Jepson J B — Stewart, J W and Wilson C W M The delayed pain of thermal burns (T)  Armstrong, Desiree Jepson J B — and Stewart J W Activation by glass of pharmaco logically active agents in blood of various species Armstrong, Desiree Jepson, J B, — and Stewart, J W Activation of 'pre active human plasma to produce a bradykinin like substance (T)	124, 18 <i>P</i> , 1954 128, 59 <i>P</i> , 1955 129, 80 <i>P</i> , 1955 130, 33 <i>P</i> , 1955
Keeler, R J	Cort J H and The effects of discrete hypothalamic lesions on the renal excretion of electrolytes in the rat (T) Cort J H and Changes in intracellular electrolytes	125, 50 <i>P</i> , 1954
	of rat muscle induced by electrolyte deficient diets, and after hypothalamic lesions (T) Sodium excretion in the rat after hypothalamic lesions and renal denervation	126, 29 <i>P</i> , 1954 130, 9 <i>P</i> , 1955
	Some renal effects of hypothalamic lesions in the rat (T)	134 6P 1956
Keen, J A	Guelle R and A study of the movements of the auditory ossicles under stroboscopic illumination	116, 175, 1952
KERWICK A.	and Pawan, G L S Protein metabolism in obese patients on restricted diets (T)	119, 34 <i>P</i> , 1952
KEILGREN J H	Jackson D.S.—, Slack, H.G.B. and Williams G. A biochemical and histological study of local connective tissue proliferation following subcutaneous injection into guinea pigs, of car rageenin a sulphated polygalactose (T)	132, 54 <i>P</i> , 1956
Kelvin, R P	, Kostial Krista Lippold, O C J and Whitfield J  The changes in energy expenditure during the attainment of skill with a pursuit meter	120, 42P 1953
Kenp F H	Ardran, G M —— and Manen, L Closure of the larvnx 4rdran G M and Swallowing without elevation	118, 39 <i>P</i> , 1952
KENNARD, D W	of the larvax  Acetylcholine activity in the region of the hypo	126, 23P, 1954
,	glossal nucleus (T) Some modifications of silver-silver chloride	118, 51P 1952
,,	electrodes  The focal and surface potentials on antidromic	120 38P, 1953
,	activation of the spinal cord of the frog (T)  The action of acetylcholine on the electronic	120, 40P, 1953
	activity of the spinal cord of the frog (T)  The effect of polarization on the ventral root	120, 55P, 1953
	potential in the frog (T)  The effect of temperature on the antidromic activation of motor neurones in the frog (R)	129, 40P, 1955
•	Studies on the activation of spinel motor recovery	133 35P 1956
KENNEY, R. A.	The effect of hot humid environments on the small	133 53 P 1050
	function of West Africans	118 25P 1952

110	TOOMAD OF THISTODOUT	
Kenney, R A.	The effect of exercise in hot, humid environments on the renal function of the West African and Ladell, W S S Water requirements of West African troops during exercises (T)	118, 26 <i>P</i> , 1952 122, 79 <i>P</i> , 1953
Kenyon, J R	Cooper, K E, Ferres, Helen M, — and Wendt, F A comparison of oesophageal, rectal and para aortic temperatures during hypothermia in man	<b>130</b> , 10 <i>P</i> , 1955
KERLY, MARGARET	Hopkinson, Leonora and The effect of cestrone and of insulin on the metabolism of isolated rat uterus	<b>122</b> , 40 <i>P</i> , 1953
29	and Ottaway, J H The effect of diet on glycogen formation in rat liver	<b>123,</b> 516, 1954
,,	and Ottaway, J H The effect of diet on the meta bolism of glucose and of acetate by rat dia phragm muscle	123, 534, 1954
,,	Hopkinson, Leonora and The interaction of insulin, oestrone and progesterone on the metabolism of isolated rat uterus	128, 113, 1955
KERNAN, R	Further evidence for the Redox pump theory (T)	125, 66 <i>P</i> , 1954
KERRAN, IV	A method of recording the rate of outflow of	120, 001, 1111
MERR, A U	parotid secretion in man (T) The relationship between chewing and secretory	131, 25 <i>P</i> , 1956
	activity of the parotid gland in man (T)	131, 30 <i>P</i> , 1956
KERSLAKE, D McK	Cooper, K E and Abolition of nervous reflex vaso dilatation by sympathectomy of the heated area Greenfield, A D M, —— and Patterson, G C	119, 18, 1953
"	Prolonged dilatation of the forearm blood vessels after a large increase in transmural pressure	125, 40 <i>P</i> , 1954
,,	The rate of diffusional water loss through human skin	127, 18P, 1954
"	Cooper, K E and Vasoconstriction in the hand during electrical stimulation of the lumbar sympathetic chain in man	<b>127</b> , 134, 1955
,,	Factors concerned in the regulation of sweat pro	
,,	duction in man  Brebner, D F, — and Waddell, J L The diffusion of water vapour through human skin	127, 280, 1955 132, 225, 1956
"	Brebner, D F, — and Waddell, J L The relation between sweat rate and body tempera ture when heat loss is small	<b>132,</b> 17 <i>P</i> , 1956
Kessel, A W L	and McPherson, A Blood flow changes in the feet in anterior poliomyelitis	120, 24 <i>P</i> , 1953
KEY, B J	Bradley, P B and A method for studying the effect of drugs on arousal responses in the cat (T)	134, 6 <i>P</i> , 1956
Keynes, R D	and Martins Ferreira, H Resting and action potentials in the electric organ Hodgkin, A L and Methods of investigating	<b>116,</b> 26 <i>P</i> , 1951
"	sodium transport in Sepia axons (T)	117, 54P, 1952
,,	and Martins Ferreira, H Membrane potentials in the electroplates of the electric eel	119, 315, 1953
,,	Hodgkin, A L and The mobility and diffusion coefficient of potassium in giant axons from Sepia	119, 513, 1953
"	Hodgkin, A L and Metabolic inhibitors and sodium movements in giant axons	120, 45P, 1953
7	Hodgkin, A L and Sodium extrusion and potas sium absorption in Sepia axons	120, 46P, 1953

Keynes, R D		122, 4 <i>P</i> , 1953
,,	Hodglan, A L and Apparatus for quantitative injection of substances into giant axons (T)	125, 14 <i>P</i> , 1954 125, 15 <i>P</i> , 1954
,	Flückiger, E and The calcium permeability of Loligo axons	128, 41 <i>P</i> , 1955
"	Hodglan, A. L. and Active transport of cations in giant axons from Sepis and Loligo	128, 28, 1955
***	Hodglan, A L and The potassium permeability of a giant nerve fibre	128, 61, 1955
<b>&gt;</b> 9	Hodgkin, A L and Experiments on the injection of substances into squid giant axons by means of a microsyringe and Lewis, P R The intracellular calcium contents	131, 592, 1956
"	of some invertebrate nerves	134, 399, 1956
Kidd B S L	Coles, D R, — and Patterson, G C The response of the blood vessels of the human calf to in creases in transmural pressure  Coles, D R, — and Patterson, G C The reactions	132, 46 <i>P</i> , 1956
"	of the blood vessels of the human calf to in creases in transmural pressure	134, 665, 1956
Kidd, C	Harper, A A, — and Scratcherd, T Vago vagal reflex effects on gastric and pancreatic secretion in cats	129, 54 <i>P</i> , 1955
***	Harper, A. A., —— and Scratcherd, T. Vago vagal reflex effects on the motility of the stomach and small intestine	132, 54 <i>P</i> , 1956
Kidd, G L	Calma, I and A stereotaxic instrument with fine control of electrode movement  Calma, I and Observations on the cerebellar	129, 5 <i>P</i> , 1955
,	responses to afferent and cerebellar cortical stimulation	129, 57 <i>P</i> , 1955
KILLICK ESTREP	M Duke, Helen N and Pulmonary perfusion of isolated cat lungs (T)	116, 46 <i>P</i> , 1952
**	Duke Helen N and Pulmonary vasoconstriction to anoxia its site of action  Duke, Helen N and Pulmonary vasomotor	117, 78 <i>P</i> , 1952
,	Duke, Helen N and Pulmonary vasomotor responses of isolated perfused cat lungs to anoxia Combination of carbon monoxide with sheep foetal	117, 303, 1952
Kunimian D	haemoglobm	127, 47, 1955
Kilpatrick, R	, Miller, H, Munro, D S Renschler, H and Wilson, G M A comparison of the distribution of <sup>42</sup> K and <sup>44</sup> Rb in the rabbit French, E B, —— and Wood, D P The relation of adrenaline secretion to the symptoms of	128, 71 <i>P</i> , 1955
	Renechler, H. E., Munro, D. S. and Wilson, G. M. A. comparison of the distribution of A. R. and	128, 72P, 1955
Kin K S	**Rb in rabbit and man Release of the pyloric hormone	133, 194, 1956 130, 14 P, 1952
KING G E	Baker, J B E and An mexpensive time marker (single impulse and 100 c/s) and vibrator	
Ambi, A R	Bell Kathleen M and Podger F C The	117, 43P, 1952
	source of corneal nerve fibres in the cat	117, 56 <i>P</i> , 1952

Kinmonth, J B	and Taylor, G W Spontaneous rhythmic contractility in human lymphatics (Film)	133 3 <i>P</i> , 1956
Kitchin, A H	Measurement of capillary filtration rate in the human forearm	122, 44 <i>P</i> , 1953
**	Effect of adrenaline on the capillary filtration rate of the human forearm	
"	The effect of intravenous infusions of Pitressin or the forearm blood flow	1 <b>26</b> , 50 <i>P</i> , 1954
"	The effect of intravenous infusion of Pitressin or hand and forearm blood flow in man	1 <b>27,</b> 1 <i>P</i> , 1954
"	The effect of acute sympathectomy on the capillary filtration rate of the human forearm	, 127, 6 <i>P</i> , 1954
"	Barcroft, H, Hensel, H and Comparison of plethysomograph and thermo electric needle records of calf blood flow during intravenous adrenaline infusions	•
,,	Barcroft, H, Bock, K D, Hensel H and The effect of body warming on the blood flow through human muscle (T)	,
KLEINZELLER, A	Cort, J H and The effect of denervation, pituitrin	,
	and varied cation concentration gradients on the transport of cations and water in kidney slices	133 287, 1956
KLOPPER, P J	Splenic function in relation to blood pressure changes evoked by stimulation of the cerebral cortex	
Knapp, Doris W	Horvath, S. M., Hutt, B. K. —— and Werner, Attre Yvonne Studies on bromsulphalem and cardiac output in the hepatectomized dog	119, 129, 1953
Knox, J A C	Hall J E and Fibrillation in the isolated rat diaphragm preparation after denervation	<b>116,</b> 29 <i>P</i> , 1951
"	Hall, J E and Recording of fibrillation potentials in isolated rat diaphragm after denervation (T) Hall, J E and Some effects of ions and of drugs	<b>123</b> , 2 <i>P</i> , 1953
"	on the spontaneous fibrillation of denervated muscle $in\ vitro$	<b>123,</b> 9 <i>P</i> , 1953
Ковачаѕні, Ч	, Oshima, K and Tasak: I Analysis of afferent and efferent systems in the muscle nerve of the toad and cat	<b>117</b> 152 1952
Koelle, G B	Angenent Winifred J and A possible enzymatic basis for the differential action of mydriatics on light and dark irides	<b>119,</b> 102, 1953
"	and Vall. A de T, Jr Physiological implications of the histochemical localization of monoamine oxidase	126, 434, 195 <del>4</del>
Koketsu, K	Eccles J C, Fatt, P and Cholinergic and inhibitory synapses in a pathway from motor axon collaterals to motoneurones	<b>126</b> 524 1954
Kordik, Pamela	Burn, J H, — and Mole, R H Effect of X irradiation on the cholinesterase in rat intestine	, 116, 5 <i>P</i> , 1951
Kosterlitz H W	Griffith, H D — and Piric, V W Electrical condenser manometer and myograph for recording low pressures and tensions (T)	118, 5 <i>P</i> , 1952

	INDIA 01 Comments	
Kosterlitz, H. W	Innes, I R and The action of ephedrine, amv locaine and cocaine on the responses of acutely and chronically denervated nictitating mem branes to adrenaline noradrenaline and 3 4-di	
99	hydroxynorephedrine  Innes, I R and The changes in the responses of the nictitating membrane to adrenaline, nor adrenaline and tyramine during the first two	118, 28 <i>P</i> 1952
	days after preganglionic and postganglionic de nervation (T) and Pirie, Vivien W Some factors concerned with	119, 51 P, 1952
	the peristaltic reflex in the guines pig s ileum  Griffith, H D, Innes I R and The use of the  condenser manometer for measuring the heart	120, 56 <i>P</i> , 1953
	rate Innes, I R and The actions of some derivatives of	121, 29 <i>P</i> , 1953
,	adrenaline and noradrenaline on the nictitating membrane and the heart rate of the cat, Krayer O and Matallana A. The effect of	122, 60 <i>P</i> , 1953
	moderately large doses of veratramine and ver atrosine on the rhythm of the acutely denervated	104 (0 D 10*)
	heart of the cat  Innes I R and The action of sympathomimetre ammes on the rate of the denertated heart of	124, 40 <i>P</i> , 1954
",	Innes I R and The effects of preganglionic and postganglionic denervation on the responses of	124, 17, 1954
	the nictitating membrane to sympathomimetic substances	<b>124</b> 25, 1954
**	, Pirie, Vivien W and Robinson Judith A Contraction of the longitudinal muscle of the isolated guinea pig ileum, caused by raising the pressure	
,	in the lumen and Robinson Judith A Mechanism of the con traction of the longitudinal muscle of the isolated	128, 8 <i>P</i> , 1955
	guinea pig ileum, caused by raising the pressure in the lumen	120 102 1057
	Innes I R and Increase in heart rate as an after effect of vagus stimulation (T)	129, 18 <i>P</i> , 1955
•	and Robinson Judith A The effects of lowering the bath temperature on the responses of the iso	130, 22 <i>P</i> , 1955
"	lated guinea pig ileum  Innes I R — and Robinson Judith A Some properties of the longitudinal muscle of the	131, 7 <i>P</i> , 1956
•	guinea pig ileum  Pirie Vivien W and Robinson Judith A The  mechanism of the peristaltic reflex in the isolated	133 6P 1956
Kostial Krista	guinea pig ileum  Kelvin, R P —, Lippold O C J and Whit field, J The changes in energy expenditures	133 681, 1956
	during the attainment of skill with a pursuit meter  Hutter, O F and Effect of magnesium ions upon	400
	Hulter O F and Effect of magnetic	120 52 D 1070
	calcium ions on the release of acetylcholine Hutter O F and The relationship of godine	
8	to the release of acetylcholme	129, 159 1955

8

## JOURNAL OF PHYSIOLOGY

Kostial, Krista	and Voul., V B The influence of temperature on
Warmer C. D.	the acetylcholine output from a sympathetic ganglion 132, 239, 1956
Kottegoda, S R	Bülbring, Edith, Burn, J. H. and The action of eserine on isolated rabbit's auricles  118, 31 P, 1952
"	Burn, J H and Action of eserme on the auricles of the rabbit heart  121, 360, 1953
29	Bülbring, Edith, — and Shelley, Heather Cholin esterase activity in the auricles of the rabbit's
,,	Heart and their sensitivity to eseme 123, 204, 1954  Ginzel, K H and The action of 5 hydroxytryptamine and tryptamine on aortic and carotid sinus receptors in the cat 123, 277, 1954
Krayer, O	Kosterlitz, H. W.,—and Matallana, A. The effect of moderately large doses of veratramme and veratrosme on the rhythm of the acutely de nervated heart of the cat  124, 40P, 1954
KREUZER, F	Gibson, Q H, ——, Meda, E and Roughton, F J W  The kinetics of human haemoglobin in solution and in the red cell at 37° C  129, 65, 1955
Krnjevic, K	The perfusion of the frog sciatic nerve with electro lyte solutions / 118, 3P, 1952
,,	Some observations on perfused frog sciatic nerves 123, 338, 1954
"	The distribution of Na and K in cat nerves 128, 473, 1955
"	Dainty, J and The rate of exchange of <sup>24</sup> Na in cat nerves 128, 489, 1955
Kuffler, S W	and Vaughan Williams, E M The slow fibres of frog skeletal muscles (T) 120, 54P, 1953
>,	and Vaughan Williams, E. M. Small nerve junctional potentials. The distribution of small motor nerves to frog skeletal muscle, and the membrane
	characteristics of the fibres they innervate 121, 289, 1953
***	and Vaughan Williams, E M Properties of the 'slow' skeletal muscle fibres of the frog 121, 318, 1953
**	Barlow, H B, FitzHugh, R and Resting discharge and dark adaptation in the cat  125, 28P, 1954  Hunt C C and Motor innervation of skeletal
"	muscle multiple innervation of individual muscle fibres and motor unit function 126, 293, 1954
Kugler, J	Johnson, F R and Distribution of alkaline phos phatase in the small intestine (T)  128, 63P, 1955
LACY, D	The cytology of pancreatic secretion 127, 26P, 1954
LADELL, W S S	Kenney, R A and Water requirements of West African troops during exercises (T) 122, 79 P, 1953
"	Some observations on sweat gland fatigue (T)  The effects of water and salt intake upon the performance of men working in hot and humid
	environments 127, 11, 1955
,,	The decline in sweating with raised rectal tempera ture 129, 8P, 1955
La Grutta, G	Desmedt, J E and Control of brain potentials by pseudocholinestorase 129, 46P, 1955
Lake, H J	Blair, E. L., Harper, A. A. and The pepsin stimu lating effects of gastric and intestinal extracts in cats.  121, 20P, 1953

Lambert, J	porary arterial occident	126, 20 <i>P</i> , 1954
LAMBERTSEN, C J		117, 12P, 1952
,,	Daly, M de Burgh, —— and Schweitzer, A The central control of bronchomotor tone (T)	117, 20 <i>P</i> , 1952
**	Daly, M de Burgh, — and Schweitzer, A Observations on the carotid body blood flow in the cat (T)  Daly, M de Burgh, — and Schweitzer, A Bron	<b>117</b> , 20 <i>P</i> , 1952
"	chomotor responses to altering the gaseous com position of the blood perfusing the brain Daly, M de Burgh, —— and Schweitzer, A The	<b>117,</b> 60 <i>P</i> , 1952
"	effects upon the bronchial musculature of altering the oxygen and carbon dioxide tensions of the blood perfusing the brain  Daly M de Burgh, — and Schweitzer, A  Observations on the volume of blood flow and	119, 292, 1953
	oxygen utilization of the carotid body in the	125, 67, 1954
LAMIERS, W	and Ritchie, J M The effect of quinne on skeletal muscle	128, 17 <i>P</i> , 1955
"	and Ritchie, $J$ $M$ The action of quinine and quinidine on the contractions of striated muscle	129, 412, 1955
LANCE, J W	Bishop, P 0, Jeremy, D and The optic nerve Properties of a central tract	121, 415, 1953
**	and Manning R L Origin of the pyramidal tract in the cat	124, 385, 1954
LANDELLS, J W	Fawns H T and The application of collagenase and hyaluromidase to the study of cartilage in histological sections	119, 5 <i>P</i> , 1952
Landgren, 8	, Neil, E and Zotterman Y The effects on baro ceptor activity of the local application of drugs to the carotid sinus wall  Eccles, J C Fatt, P, —— and Winsbury, G J	116, 27 <i>P</i> , 1951
	Spinal cord potentials generated by volleys in the large muscle afferents	125, 590, 1954
Langham, M E	The effect of cortisons on the swelling and vascu larization of the cornes induced by alloxan (T) Utilization of oxygen by the component layers of	116, 52P, 1952
,	the living cornea and Wybar, K. C. A fluorophotometer for the study	117, 461, 1952
,	of intra-ocular dynamics in the living animal Heald Kathleen and Glycolysis in the living and	120 5P 1059
,,	excised cornea of the rabbit  Heald, Kathleen and Oxygen supply to rabbit	122 14 P 1052
**	and Ridge J W The effect of ascorbic acid transfer on the lactic acid concentration of the aqueous	122, 15P, 1953
** *	humour after unilateral carotid ligation Glycolysis in the cornes of the rabbit The effect of aerobic metabolism on the movemen	124, 26P, 1954
,	The effect of a carbonic anhydrase inhibitor on the	120 40 7 30 44
	circulation of the aqueous humour	128 78P, 1955

LANGHAM, M E	The use of ascorbic acid to measure the rate of flow of plasma through the ciliary processes	130, 1, 1955
,,	and Lee, Patience M The importance of systemic acidosis to the action of the carbonic anhydrase	i
,,	inhibitor Diamox on the eye and Lee, Patience M The effect of ammonium chloride and the carbonic anhydrase inhibitor	•
,,	Diamox on the transfer of ascorbic acid across the blood aqueous barrier and Wood, Paula The transfer of fluorescein across	130, 27P, 1955
	the blood aqueous barrier	<b>132</b> , 55 <i>P</i> , 1956
Larrabee, M G	Edwards, C and Effects of anaesthetics on meta bolism and on transmission in sympathetic ganglia of rats Measurement of glucose in microgram quantities using glucose oxidase	<b>130, 4</b> 56, 1955
,,	Dolivo, $M$ , $H$ orowicz, $P$ , —— and $Stekiel$ , $W$ Metabolic substrates in mammalian sympathetic ganglia	133 52P, 1956
Larsson, S	Brobeck, J R, —— and Reyes, E A study of the electrical activity of the hypothalamic feeding mechanism	132, 358, 1956
LATNER, A L	Clayton, C. G., —— and Schofield, B. The absorption of radioactive B <sub>12</sub> in normal and gastrecto mized rate	<b>129</b> , 56 <i>P</i> , 1955
LATNER, A T	Cox, E V, —, McEvoy Bowe, E, Raine, Laureen and Ungley, C C Studies on the separa tion of Castle's intrinsic factor (T)	121, 13 <i>P</i> , 1953
LAUDER, I M	Jennings, F W, —— and Mulligan, W Isotopic methods in blood volume determinations on domestic animals	<b>121,</b> 53 <i>P</i> , 1953
Lawn, A M	Amoroso, E. C., Bell, F. R. and Prehension, rumination and progression after lesions of the motor cortex in goats (Film) (T)	<b>124</b> , 16 <i>P</i> , 1954
"	Bell, F R and Localization of regions in the medulla oblongata of sheep associated with rumination	128, 577, 1955
**	Bell, F R and Delineation of motor areas in the cerebral cortex of the goat	<b>133</b> , 159, 1956
LAWRIE, R A	The onset of rigor mortis in various muscles of the draught horse	121 275, 1953
LAX, LOUIS C	Sidlofsky Saul and Wrenshall Gerald A Compartmental contents and simultaneous transferrates of phosphorus in the rat	<b>132</b> 1 1956
LEACH, E H	A double microprojector for comparing histological preparations A modified ester wax for embedding tissues (T)	118, 17 <i>P</i> , 1952 126, 11 <i>P</i> , 1954
LEACH, G D	The use of the guinea pig vas deferens to study drug antagonisms $(T)$	<b>123</b> 2 <i>P</i> , 1953
LEATHART, G L	Dornhorst $A$ $C$ , Howard $P$ and Respiratory variations in human blood pressure $(T)$	116 3P, 1951
LE BEAU, M	and Gless, P The termination of descending tectal fibres studied by the method of terminal degeneration	118, 51 <i>P</i> , 1952

Lecoute, J	Bounameaux, Y, Hugues, J and Histamine and platelet adhesiveness	126, 15P, 1954
Lee, G de J	Bradley, R D, Gaskell, P, Holland, W W, and Young I Maureen The acid base changes in arterial blood during adrenaline hyperphoea in man	122, 39 <i>P</i> , 1953
"	Bradley, R D, Gaskell, P, Holland, W W, and Young, I Maureen The acid base changes in arterial blood during adrenaline hyperpnoea	<b>124</b> , 213, 1954
**	n man  Dornhorst, A C and A device for solving the alveolar capillary diffusion equation (T)	133, 27 <i>P</i> , 1956
Lee, J	Browne, K and The appreciation of passive move ment of the metatarsophalangeal joint of the great toe in man	<b>123</b> , 10 <i>P</i> , 1953
,	and Ring, P A The effect of local anaesthesia on the appreciation of passive movement of the great toe in man Frazer, J F D and Deoxycortone acetate (DCA)	123, 56P, 1954
,	and the maintenance of pregnancy in the spayed rat	<b>125,</b> 59 <i>P</i> , 1954
"	Browne K, —— and Ring P A The sensation of passive movement at the metatarso phalangesl joint of the great toe in man Alexander, D Pauline, Frazer J F D and The	126, 448, 1954
	effect of steroids on the maintenance of preg nancy in the spayed rat	130, 148, 1955
Lee, Patience M	The effect of a carbonic anhydrase inhibitor on the pH, bicarbonate and carbon dioxide concentrations in blood and aqueous humour Langham, M E and The importance of systemic	128, 80 <i>P</i> , 1955
,	acidosis to the action of the carbonic anhydrase inhibitor Diamox on the eye  Langham, M E and The effect of ammonium chloride and the carbonic anhydrase inhibitor Diamox on the transfer of ascorbic acid across the blood aqueous barrier	130, 27 <i>P</i> , 1955
Lee, T S	Glaser, E M and Activity of human sweat glands during exposure to cold	122 59, 1953
Lermann, H	Physiological gustatory sweating in a warm climate	
"	and Silk, Elsie Benzovicholine as a muscle relaxant  Graff Jean A E, Ikin, Elizabeth W,,  Mourant A E, Parkin Dorothy M and	122, 76P, 1953
,	Wickremasinghe, R. L. Haemoglobin E. and blood groups in the Veddas  Alsoy M., Bird, G. W. G., Mourant A. E., Thein H. and Wickremasinghe, R. L. Haemo	127 ALD 1054
19	Edungton G M, — and Walters, J H Obser vations on haemoglobin C and G in West Africa	130, 56 <i>P</i> , 1955
	(T) and Raper, A B The maintenance of different sickling rates in similar populations	131, 22P, 1956
LEITHLAD L 4	and Thomson L C Tape recording of spike po	133, 15P, 1956
		126, 2P, 1954

LELE, P P

## JOURNAL OF PHYSIOLOGY

, Sinclair, D C and Weddell, G The reaction time

LELE, P P	, Sinclarr, D C and Weddell, G The reaction time to touch  Relationship between cutaneous thermal thres	<b>123</b> , 187, 1954
"	holds, skin temperature and cross sectional area of the stimulus  Weddell, G and Williams, C M The relationship between heat transfer, skin temperature and cutaneous sensibility	126, 191, 1954 126, 206, 1954
Le Quesne, L P	and Lewis, A A G Water and electrolyte changes after operation (T)	119, 34 <i>P</i> , 1952
Lessen, M.	and Peterson, L H On the principle of super position in haemodynamics	<b>130,</b> 18 <i>P</i> , 1955
Lessin, A W	Ambache, N and In vitro effects of Botulinum toxin (type D)	122, 63 <i>P</i> , 1953
"	Ambache, N and Classification of intestinomotor drugs by means of type D botulinum toxin  Hobbiger, F and Correlation between transience	127, 449, 1955
	of atropine-block and the incidence of atropine esterase in rabbits	128, 71 <i>P</i> , 1955
LETTVIN, J Y	Howland, B, —, McCulloch, W S, Pitts, W and Wall, P D On microelectrodes for plotting currents in nervous tissue	<b>122,</b> 24 <i>P</i> , 1953
Leusen, I	$\begin{subarray}{ll} de Bersaques, J \ and \ Acid base equilibrium between blood and cerebrospinal fluid \end{subarray}$	126, 14 <i>P</i> , 1954
LEVER, A F	Blaxland, J W and The effect of atropine and acetylcholine on dorsal and ventral root potentials (T)	118, 50 <i>P</i> , 1952
Levinson, N	Ferguson, I D and Responses to temperature in the isolated rabbit ear Ferguson, I D and Vascular responses in the iso	118, 59 <i>P</i> , 1952
**	lated ear of the rabbit	119, 14 <i>P</i> , 1952
,,	Ferguson, I D and Vascular responses to tempera ture in the denervated isolated rabbit ear Ferguson I D and Vascular responses to tempera	122, 35P, 1953
**	ture in the perfused isolated ear of the rabbit	<b>128,</b> 608, 1955
LEVY, S W	and Swank, Roy L The effect of in vivo heparin on plasma esterase activity and lipaemia clearing and Swank, Roy L The esteratic and chylolytic	<b>123</b> , 301, 1954
"	properties of post heparin plasma and their role in lipaemia clearing	127, 297, 1955
Lewis, A A G	Chalmers, T M, —— and Pawan, G L S The effect of scute reduction of the glomerular filtration rate on sodium excretion in man	<b>117,</b> 218, 1952
"	Le Quesne, L P and Water and electrolyte changes after operation (T)	119, 34 <i>P</i> , 1952
**	Eisen V D and Antidiuretic activity of human urine after stimulation of the supraoptico hypophysial system	122, 33 <i>P</i> , 1953
Lewis, B D	and Renbourn, E T Chinical thermometry Regional differences and times for equilibration of thermometer	127, 57 <i>P</i> , 1955
Lewis, D M	Rat retinal photopigments by reflected and transmitted light	133, 55P, 1956

Lewis, G P	Graham, J. D. P. and Relationship between anti- adrenaline and anti-histamine activity in a series	116, 37 <i>P</i> , 1951
,	Graham, $J$ $D$ $P$ and Anti adrensine and anti- histamine action of ethylenemine	118, 12 <i>P</i> , 1952
,	Hilton, S M and The cause of the vasodilatation in the submandibular gland on stimulation of the chords tympani	125, 48 <i>P</i> , 1954
17	Hilton, S. M. and Functional hyperaemia in the submandibular salivary gland.  Hilton, S. M. and The cause of the vasodilatation.	128, 11 <i>P</i> , 1955
,	accompanying activity in the submandibular salivary gland	128, 235, 1955
**	Hilton S M and The mechanism of the functional hyperaemia in the submandibular salivary gland	129, 253, 1955
***	Hilton, S M and Functional hyperaemia in the submandibular salivary gland and bradykinin formation	130, 43 <i>P</i> , 1955
**	Bhattacharya B K and Comparison of the effect of reservine and 48/80 on the histamine and 5 hydroxytryptamine in mast cells of rats Hilton S M and The relationship between glandular activity bradykinin formation and	133, 10 <i>P</i> , 1956
	functional vasodilatation in the submandibular salivary gland	134, 471, 1956
Lewis, H E	and Inppold, O C J A simple method for micro	117, 16 <i>P</i> , 1952
,	Polar clothing on the British North Greenland Expedition (Film) (T)  and Masterton, J. P. The influence of a Polar en	124, 16 <i>P</i> , 1954
·	vironment on sleep wakefulness patterns in man (T)	129, 82 <i>P</i> , 1955
Lewis, O J	Cobbold, A F and Blood flow to the knee joint of the dog Effect of heating cooling and adrenaline	132, 379, 1956
,	Cobbold A F and Some responses of joint blood vessels	132, 63 <i>P</i> , 1956
,	Cobbold A F and The nervous control of joint blood vessels Cobbold, A F and The action of adrenaline, nor	133, 467, 1956
	adrenaline and acetylcholine on blood flow through joints	133, 472, 1956
Lewis P R	and Lobban Mary C Persistence of a 24 hr pattern of diuresis in human subjects living on a 22 hr day	
7 22	Slow loss of amino acids from crab nerve and Lobban, Mary C Electrolyte excretion in	125 34P, 1954 126, 34P, 1954
**	human subjects living on a 22 hr day  A theoretical interpretation of spectral sensitivity	120 4472 1000
17	curves at long wavelengths  Lobban Mary C and Shaw, T I Patterns of urne flow in human subjects during a prolonged	130, 45, 1955
	and Lobban, Mary C Patterns of electrolyte excre- tion in human subjects during a prolonged reseated	133, 659, 1956
,	Keynes, R D and The intracellular column	400
	contents of some invertebrate nerves	134, 399, 1956

Lewis, S. E.  and Smallman, B. N. The estimation of acetyl choline in insects  Li, Chor Luh  and Jasper, Herbert Microelectrode studies of the electrical activity of the cerebral cortox in the cat.  Action and resting potentials of cortical neurones  The facilitatory effect of stimulation of an un specific thalamic nucleus on cortical sensory neuronal responses  The inhibitory effect of stimulation of an un specific thalamic nucleus on cortical sensory neuronal responses  The inhibitory effect of stimulation of a thalamic nucleus on neuronal activity in the motor cortex  An investigation of spontaneous activity at the neuromuscular junction of the rat.  The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro muscular junction  Beznal, A. B. L. and. Changes in the flow of lymph and in the secretion of urine due to the carotid suns reflex  Lind, A. R.  Ferres, Helen, M., Fox, R. H. and. Individual variation in energy expenditure  Ellis, F. P. Ferres, Helen, M., — and Newling, P. S. B. The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F. P. Ferres, Helen, M. — and Newling, P. S. B. The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F. P. Ferres, Helen, M. — and Newling, P. S. B. The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F. P., Ferres, Helen, M. — and Newling, P. S. B. The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F. P., Ferres, Helen, M. — and Newling, P. S. B. The upper tolerable levels of warmth for acclimation in the heart artice of men of two age groups to a hot environment.  Hellon, R. F. — and Weiner, J. S. The physiological reactions of men of two age groups to a hot environment.  Hellon, R. F. — and Weiner, J. S. The physiological reactions of men of two age groups to a hot environment.  Coleridge, J. C. G. and. The effect of intravenous infusions upon the heart rate of th			
LILY, CHOR LUR  and Jasper, Herbert Microelectrode studies of the electrical activity of the cerebral cortex in the cat Action and resting potentials of cortical neurones The facilitatory effect of stimulation of an un specific thelamic nucleus on cortical sensory neuronal responses  The inhibitory effect of stimulation of a thalamic nucleus on neuronal activity in the motor cortex  An investigation of spontaneous activity at the neuromuscular junction of the rat the spontaneous activity at the mammalian neuro nuscular junction  The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro nuscular junction  Beznal, A B L and Changes in the flow of lymph and in the secretion of urine due to the carotid sinus reflex  Lind, F P. Ferres, Helen M, — and Neuling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F P, Ferres, Helen M, — and Neuling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F P, Ferres, Helen M, — and Neuling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F P, Ferres, Helen M, — and Neuling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F P, Ferres, Helen M, — and Neuling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F P, Ferres, Helen M, — and Neuling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F P, Ferres, Helen M, — and Neuling, P S B The upper tolerable levels of warmth for acclimatized daily exposures to humad heat  Glellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon, R F and Sweating and vasodilatation in the human forearm  Coleridge, J C G and The effect of increased venous return upon the heart rate of the anaesthetized dog  Coleridge, J C G and The ef	Lewis, S E	<del>-</del>	<b>134</b> , 241, 1956
Action and resting potentials of cortical neurones The facilitatory effect of stimulation of an un specific thalamic nucleus on cortical sensory neuronal responses The unhibitory effect of stimulation of a thalamic nucleus on neuronal activity in the motor cortex An investigation of spontaneous activity at the neuromuscular junction of the rat The quantal components of the mammalian end plate potential The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro nuscular junction The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro nuscular junction  LILIJESTRAND, G  Benal, A B L and Changes in the flow of lymph and in the secretion of urine due to the carotid sinus reflex  LIND, A R  Ferres, Helen, M, Fox, R H and Individual variation in energy expenditure  Ellis, F P, Ferres, Helen M, —— and Newling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics Ellis, F P, Ferres, Helen M and The effect of water make on sweat production in the hand and forearm with repeated daily exposures to humdle  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humdle  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon, R F and Sweating and vasodilatation in the human forearm  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return	Li, Chon Lun		
Internal responses The inhibitory effect of stimulation of a thalamic nucleus on neuronal activity in the motor cortex  An investigation of spontaneous activity at the neuromuscular junction of the rat  The quantal components of the mammalian end plate potential  The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro muscular junction  LILJESTRAND, G  Beznal, A B L and Changes in the flow of lymph and in the secretion of urine due to the carotid sinus reflex  Ferres, Helen, M, Fox, R H and Individual variation in energy expenditure  Ellis, F P, Ferres, Helen M, —— and Newling, P S B The upper tolerable levels of waiting processing and the topics of water intake on sweat production in hot environ ments  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  Hellon, R F, —— and Weiner, J S The physiological reactions of men of two age groups to a hot environment  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  Linder, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and The measurement of effective atmal pressures in relation to effective atmal pressure (T)  Coleridge, J C G and The measurement of effective atmal pressures in relation to effective atmal pressure (T)  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of the anaesthetized dog  Coleridge,		Action and resting potentials of cortical neurones The facilitatory effect of stimulation of an un	130, 96, 1955
LILEY, A W  An investigation of spontaneous activity at the neuromuscular junction of the rat  The quantal components of the mammalian end plate potential  The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro muscular junction  Beznal, A B L and Changes in the flow of lymph and in the secretion of urine due to the carotid sinus reflex  Elius, F P, Ferres, Helen, M, — and Newling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellius, F P, Ferres, Helen M, and The effect of water intake on sweat production in hot environ ments  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  Hellon, R F, — and Weiner, J S The physio logical reactions of men of two age groups to a hot environment  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  Linden, R J C G and The effect of increased venous return upon the heart rate of the anaesthetized dog  Coleridge, J C G and The measurement of effect wive atrial pressures in relation to effective atrial pressure (T)  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the annesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the annesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the annesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the annesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the annesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the annesthetized dog  Coleridge, J C G and The effect upon the heart rate of the annesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening		neuronal responses	<b>131,</b> 115 1956
neuromuscular junction of the rat The quantal components of the mammalian end plate potential The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro muscular junction  Liljestrand, G  Beznak, A B L and Changes in the flow of lymph and in the secretion of urms due to the carotid sinus reflex  Lind, A R  Ferres, Helen, M, Fox, R H and Individual variation in energy expenditure  Ellis, F P, Ferres, Helen M, —— and Newling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropies  Ellis, F P, Ferres Helen M and The effect of water intake on sweat production in hot environments  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing Hellon R F and Sweating and vasodulatation in the human forearm  Linden, R J  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and Intrapleural and media stinal pressures in relation to effective atrial pressure (T)  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of the a		nucleus on neuronal activity in the motor cortex	
plate potential  The effects of presynaptic polarization on the spontaneous activity at the mammalian neuro muscular junction  Liljestrand, G  Benal, A B L and Changes in the flow of lymph and in the secretion of urine due to the carotid sinus reflex  Lind, A R  Ferres, Helen, M, Fox, R H and Individual variation in energy expenditure  Ellis, F P, Ferres, Helen M, — and Newling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropies  Ellis, F P, Ferres Helen M and The effect of water intake on sweat production in hot environments  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  Hellon, R F, — and Weiner, J S The physic logical reactions of men of two age groups to a hot environment  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  Linden, R J  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and Recording of effective right and left atrial pressures in the intact dog  Coleridge, J C G and The measurement of effective atrial pressure (T)  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coler	LILEY, A W	neuromuscular junction of the rat	<b>132,</b> 650, 1956
LILJESTRAND, G  Beznak, A B L and Changes in the flow of lymph and in the secretion of urine due to the carotid sinus reflex  Lind, A R  Ferres, Helen, M, Fox, R H and Individual variation in energy expenditure  Ellis, F P, Ferres, Helen M, — and Newling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellis, F P, Ferres Helen M and The effect of water intake on sweat production in hot environments  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  Hellon, R F, — and Weiner, J S The physio logical reactions of men of two age groups to a hot environment  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  Linden, R J  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and Interpleural and media stinal pressures in relation to effective atrial pressure (T)  Coleridge, J C G and The measurement of effective atrial pressures in relation to effective atrial pressure (T)  Coleridge, J C G and The measurement of effective atrial pressure in relation to effective atrial pressure in the intact dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	"	• •	133, 571, 1956
LIND, A R  Ferres, Helen, M, Fox, R H and Individual variation in energy expenditure  Ellts, F P, Ferres, Helen M, — and Newling, P S B The upper tolerable levels of warmth for acclimatized European men working in the tropics  Ellts, F P, Ferres Helen M and The effect of water intake on sweat production in hot environ ments  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  Hellon, R F, — and Weiner, J S The physio logical reactions of men of two age groups to a hot environment  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  Linden, R J  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and Intrapleural and media strial pressures in relation to effective atrial pressures (T)  Coleridge, J C G and The measurement of effective atrial pressures (T)  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	"	spontaneous activity at the mammalian neuro	<b>134</b> , 427, 1956
LIND, A R  Ferres, Helen, M, Fox, R H and Individual variation in energy expenditure  Ellis, F P, Ferres, Helen M, — and Newling, P S B The upper tolerable levels of warmth for acclimate de European men working in the tropics  Ellis, F P, Ferres, Helen M and The effect of water intake on sweat production in hot environ ments  Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humd heat  Hellon, R F, — and Weiner, J S The physio logical reactions of men of two age groups to a hot environment  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  Linden, R J  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and Intrapleural and media stinal pressures in relation to effective atrial pressures (T)  Coleridge, J C G and The measurement of effective atrial pressures (T)  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	LILJESTRAND, G		
variation in energy expenditure  Ellis, F. P., Ferres, Helen M., — and Newling, P. S. B. The upper tolerable levels of warmth for acchimatized European men working in the tropics Ellis, F. P., Ferres Helen M. and The effect of water intake on sweat production in hot environ ments  "Hellon, R. F. and Circulation in the hand and forearm with repeated daily exposures to humid heat  "Hellon, R. F., — and Weiner, J. S. The physio logical reactions of men of two age groups to a hot environment  "Hellon, R. F. and Observations on the activity of sweat glands with special reference to the influence of ageng  "Hellon R. F. and Sweating and vasodilatation in the human forearm  Linden, R. J. Coleridge, J. C. G. and The effect of increased venous return upon the heart rate  Coleridge, J. C. G. and Recording of effective right and left atrial pressures in the intact dog  Coleridge, J. C. G. and Threeffect of increased stinal pressures in relation to effective atrial pressure (T)  "Coleridge, J. C. G. and The measurement of effective atrial pressure in relation to effective atrial pressure in the intact dog  Coleridge, J. C. G. and The measurement of effective atrial pressure in relation to effective atrial pressure in the intact dog  Coleridge, J. C. G. and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J. C. G. and The effect of intravenous influsions upon the heart rate of the anaesthetized dog  Coleridge, J. C. G. and The effect upon the heart rate of increasing the venous return by opening			117, 10 <i>P</i> , 1952
## P S B The upper tolerable levels of warmth for acclimatized European men working in the tropies   ## Ellis, F P, Ferres Helen M and The effect of water intake on sweat production in hot environ ments   ## Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat   ## 128, 57P, 1955   ## Hellon, R F, — and Weiner, J S The physio logical reactions of men of two age groups to a hot environment   ## Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing   ## Hellon R F and Sweating and vasodilatation in the human forearm   ## Hellon R F and Sweating and vasodilatation in the human forearm   ## LINDEN, R J Coleridge, J C G and The effect of increased venous return upon the heart rate   ## Coleridge, J C G and Intrapleural and media stinal pressures in relation to effective atrial pressure (T)   ## Coleridge, J C G and The measurement of effective atrial pressure (T)   ## Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog   ## Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog   ## Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog   ## Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog   ## Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening   ## 125, 51P, 1954   ## 128, 57P, 1955   ## 133, 118, 1956   ## 13		variation in energy expenditure	<b>123,</b> 74 <i>P</i> , 1954
ments  ### Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  #### Hellon, R F, — and Weiner, J S The physio logical reactions of men of two age groups to a hot environment  ###################################	,,	$P \ S \ B$ The upper tolerable levels of warmth for	125 55P, 1954
### Hellon, R F and Circulation in the hand and forearm with repeated daily exposures to humid heat  #### Hellon, R F, —— and Weiner, J S The physic logical reactions of men of two age groups to a hot environment  ###################################	"	Ellis, F P, Ferres Helen M and The effect of water intake on sweat production in hot environ	
mellon, R. F.,—and Weiner, J. S. The physic logical reactions of men of two age groups to a hot environment  mellon, R. F. and Observations on the activity of sweat glands with special reference to the influence of ageing  mellon R. F. and Sweating and vasodilatation in the human forearm  lad, 18P, 1956  Linden, R. J. Coleridge, J. C. G. and The effect of increased venous return upon the heart rate  coleridge, J. C. G. and Recording of effective right and left atrial pressures in the intact dog  coleridge, J. C. G. and Intrapleural and media stinal pressures in relation to effective atrial pressure (T)  coleridge, J. C. G. and The measurement of effective atrial pressure (T)  coleridge, J. C. G. and The measurement of effective atrial pressure (T)  coleridge, J. C. G. and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  coleridge J. C. G. and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  coleridge, J. C. G. and The effect upon the heart rate of increasing the venous return by opening	"	Hellon, R F and Circulation in the hand and	
hot environment  Hellon, R F and Observations on the activity of sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  LINDEN, R J  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and Recording of effective right and left atrial pressures in the intact dog  Coleridge, J C G and Intrapleural and media stinal pressure in relation to effective atrial pressure (T)  Coleridge, J C G and The measurement of effective atrial pressure  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	"	Hellon, $R$ $F$ , — and Weiner, $J$ $S$ The physic	<b>128</b> , 57P, 1955
sweat glands with special reference to the influence of ageing  Hellon R F and Sweating and vasodilatation in the human forearm  Coleridge, J C G and The effect of increased venous return upon the heart rate  Coleridge, J C G and Recording of effective right and left atrial pressures in the intact dog  Coleridge, J C G and Intrapleural and media stinal pressure in relation to effective atrial pressure (T)  Coleridge, J C G and The measurement of effective atrial pressure  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	"	hot environment	133, 118, 1956
the human forearm  134, 18P, 1956  Linden, R. J. Coleridge, J. C. G. and The effect of increased venous return upon the heart rate  Coleridge, J. C. G. and Recording of effective right and left atrial pressures in the intact dog  Coleridge, J. C. G. and Intrapleural and media stinal pressure (T)  Coleridge, J. C. G. and The measurement of effective atrial pressure  Coleridge, J. C. G. and The measurement of effective atrial pressure  Coleridge, J. C. G. and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge J. C. G. and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J. C. G. and The effect upon the heart rate of increasing the venous return by opening		influence of ageing	133, 132, 1956
venous return upon the heart rate  Coleridge, J C G and Recording of effective right and left atrial pressures in the intact dog  Coleridge, J C G and Intrapleural and media stinal pressure (T)  Coleridge, J C G and The measurement of effective atrial pressure  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	,,		<b>134</b> , 18 <i>P</i> , 1956
and left atrial pressures in the intact dog  Coleridge, J C G and Intrapleural and media atmal pressures in relation to effective atrial pressure (T)  Coleridge, J C G and The measurement of effective atrial pressure  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	Linden, R J	venous return upon the heart rate	122, 50P, 1953
stinal pressures in relation to effective atrial pressure (T)  Coleridge, J C G and The measurement of effective atrial pressure  122, 70P, 1953  126, 304, 1954  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	**	and left atrial pressures in the intact dog	122, 65P, 1953
" Coleridge, J C G and The measurement of effective atrial pressure  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	"	stinal pressures in relation to effective atrial	<b>122</b> . 70 <i>P</i> . 1953
"  Coleridge, J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	,,	Coleridge, J C G and The measurement of effec	
dog Coleridge J C G and The effect of intravenous infusions upon the heart rate of the anaesthetized dog Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	,,	Coleridge, J C G and The effect of intravenous	•
dog 128, 310, 1955  Coleridge, J C G and The effect upon the heart rate of increasing the venous return by opening	,	dog $Coleridge \ J \ C \ G \ and \ The effect of intravenous$	127, 31 P, 1954
rate of increasing the venous return by opening		dog	<b>128,</b> 310, 1955
	"	rate of increasing the venous return by opening	130 674 1955

	INDIA OI MOLINI	
LINDEN, R J	and Airiai receptors in the dog	132, 68 <i>P</i> , 1956
Lindop, Patricia J	A method for the determination of the renal blood content, and its variation with age, in the rabbit	132, 13 <i>P</i> , 1956
LINDSAN, D B	Fisher, R B and The effect of insulin on the pene tration of galactose into the perfused rat heart	124, 20P, 1954
"	Fisher R B and The action of insulin on the pene tration of sugars into the perfused heart	131, 526, 1956
LINZELL, J L	Internal calorimetry in the measurement of blood flow with heated thermocouples	121, 390, 1953
,	The contractility of the alveoli of the mammary gland	123, 32P, 1953
29	Daly, I de Burgh, —, Mount, L E and Wattes, G M H Pulmonary vasomotor responses and acid base balance in perfused eviscerated dog	
"	preparations Some observations on the contractile tissue of the	125, 40P, 1954
"	mammary glands  Evidence against a parasympathetic innervation	130, 257, 1955
	of the mammary glands	133, 66P, 1956
Lippold, O C J	Lewis, H E and A simple method for micro gas analysis	117, 16 <i>P</i> , 1952
***	The relation between integrated action potentials in a human muscle and its isometric tension  Bigland Brenda —— and Wrench, Anne The	117, 492 1952
**	electrical activity in isotonic contractions of human calf muscle	120, 40P 1953
,	Kelvin, R. P., Kostial, Krista, —— and Whit field, J. The changes in energy expenditure during the attainment of skill with a pursuit	
"	meter  Bigland, Brenda, Hutter O F and Action po tentials and tension in mammahan nerve-muscle	120, 42 <i>P</i> , 1953
,	preparations  Bigland Brenda, and The relation between force, velocity and integrated electrical activity in	<b>121</b> , 55 <i>P</i> , 1953
,	human muscles  Bigland Brenda and Motor unit activity in the	<b>123</b> , 214, 1954
,	roluntary contraction of human muscle Fatigue in finger muscles (Film) and Palmer, J F The effects of fatigue on the	125 322, 1954 128, 33 <i>P</i> , 1955
,	electrical activity of human muscle (T)  Edwards R G and The relation between force and	132, 21 P, 1956
LISTER W	integrated electrical activity in fatigued muscle and Sherwood S L A lightweight stereotaxic	
LISTER W C	instrument for man, monkey and cat (T)	128, 3 <i>P</i> , 1955
_	Brown G L and A versatile my ograph stand (T)	124, 15P, 1954
Liversedge L	cramp (T)	132, 53 P. 1956
LLOYD, B B	and Parry, H V The reduction of L-ascorbone by human crythrocytes  Cunningham D J C, Johnson, W G H and	100 515
,	and Wright T A A four-channel ten for use	
	human respiratory studies	133, 34 <i>P</i> , 1956

Lloyd-Jacob, Marny A	and Scott, Patricia P The oestrous cycle and oestrous behaviour in the cat (T)	<b>130</b> , 36 <i>P</i> , 1955
Lobban, Mary C	Structural variations in the adrenal cortex of the adult cat	<b>118</b> , 565, 1952
,,	Lewis, P R and Persistence of a 24 hr pattern of diuresis in human subjects living on a 22 hr day	125, 34 <i>P</i> , 1954
"	Lewis, P R and Electrolyte excretion in human subjects living on a 22 hr day	<b>128</b> , 44 <i>P</i> , 1955
"	Lewis, PR, — and Shaw, TI Patterns of urine flow in human subjects during a prolonged period of life on a 22 hr day	<b>133</b> , 659, 1956
,,	Lewis, P R and Patterns of electrolyte excretion in human subjects during a prolonged period of life on a 22 hr day	<b>133,</b> 670, 1956
Lock, J A.	and Woods, A M Some observations on the effect of pituitary fractions containing ACTH and intermedin on adrenaline hyperglycaemia in	
T M D	rabbits (T)	121, 22P, 1953
Lockett, Mary F	Demethylation of adrenaline and methylation of noradrenaline by suprarenal gland <i>in vitro</i>	117, 68P, 1952
"	Sympatholytic drugs and the adrenal glands, Reid, E and Young, F G The diabetogenic action of purified growth hormone in adrenal	118, 37 <i>P</i> , 1952
,,	ectomized animals  A compound very closely resembling N isopropyl noradrenaline in saline extracts of cat adrenal	<b>121</b> , 28, 1953
,,	gland Bronchial sympathin in the cat	124, 67 P, 1955 133, 73 P, 1956
LOCKHART, R D	Healy, M J R, — MacKenzie, J, Tanner, J M and Whitehouse, R H The prediction of adult human body measurements from measurements taken from birth to five years	132, 36 <i>P</i> , 1956
Loeser, A A	Feldberg, W and Histamine content of human skin in different clinical disorders	126, 286, 1954
,	Hutter, O F and Nature of neuromuscular facilitation by sympathetic stimulation in the frog Hutter, O F and The nature of the neuromuscular	<b>130</b> , 559, 1955
,,	facilitation produced by sympathetic stimulation in the frog (T)	130, 49 <i>P</i> , 1955
"	Modulation of cutaneous mechanoreceptors by sympathetic stimulation	132, 40, 1956
"	Excitation and changes in adaptation by stretch of mechanoreceptors	<b>133</b> , 588, 1956
Logothetopoulos, J	and Scott, $R$ $F$ Active indide transport across the placenta of the guinea pig rabbit and rat and Myant $N$ $B$ Concentration of radio indide	132, 365, 1956
,,	and <sup>35</sup> S labelled thiocyanate by the stomach of the hamster	<b>133</b> , 213, 1956
,,	and Myant, N B Concentration of radio iodide and <sup>25</sup> S thiocyanate by the salivary glands	134, 189, 1956
LONGMUIR, I S	and Roughton, F J W The diffusion coefficients of carbon monoxide and nitrogen in haemoglobin solutions	<b>118,</b> 264, 1952
Lo\gson, D	and $Mills$ $J$ $N$ Excess carbon dioxide and morning urine	118, 6 <i>P</i> , 1952

	and Mills, J N The failure of the kidney to	
Lo\cso D	respond to respiratory acidosis	122, 81, 1953
11	Mills I N Thomas S and Yates, P A Handling	125, 66 <i>P</i> , 1954
**	of phosphate by the human kidney at high plasma concentrations	131, 555, 1956
LORD, JOSEPHINE M		122, 29 <i>P</i> , 1953
"	Cross, K. W., Hooper, J. M. D. and Anoxic de pression of the medulla in the new born infant	125, 628, 1954
Love, A. H G	The effect of contraction of the muscles of the human forearm on the oxygen saturation of the effluent blood	127, 13 <i>P</i> , 1954
Love, J W	A biological assay for secretin (T)	133, 1P, 1956
	and Welman, W L A modified form of the ioniza	•
LOVELOCK, J E	tion anemometer (T)	127, 45P, 1955
,,	Andjus, R J and Reanimation of rats from body	
	temperatures between 0 and 1° C by microwave diathermy	128, 541, 1955
I 0 F	Groen, J J, — and Vendrik, A J H The	120, 011, 1500
Lowenstein, O E	mechanical analysis of the responses from the	
	end organs of the horizontal semicircular canal	
	in the isolated elasmobranch labyrinth	117, 329, 1952
39	The response of vestibular sense endings to galvanic stimulation (T)	125, 31P, 1954
,,	The effect of galvanic polarization on the impulse	,,
	discharge from sense endings in the isolated labyrinth of the thornback rav (Raja clavata)	127, 104, 1955
Lowy, J	Abbott, B C and Mechanical properties of Mytilus muscle	120, 50 <i>P</i> , 1953
"	Contraction and relaxation in the adductor muscles of Mytilus edulis	
"	Contraction and relaxation in the adductor muscles of Pecter maximus	120, 129, 1953
,,	Abbott, B C and Heat production in a smooth	124, 100, 1954
·	muscle	130, 25P, 1935
"	The action on Mytilus muscle of a heat stable principle in partially purified type A botulinum	
	toxin preparations	132 672, 1956
"	Abbott B C and Early tension changes during	-02 012, 1000
17	contraction of certain invertebrate muscles  Abbott B C and On the identity of the muscle	133, 8P, 1956
Lucas, B G B	constant a derived thermally and mechanically and Strangeways, Dorothy H Variations in the ap	133, 36 <i>P</i> , 1956
	pearance of the cells of the guinea-pig brain after routine histological methods	
Luck, C P	Hongo, T T and The circulation in the tail of a monkey (Cercopithecus pygerythrus)	
**	Recording vasomotor changes in the rat's tail (T)	122, 570, 1953
"	A membrane manometer (T)	124 107 107
,	Harlness, R D and A simple and sensitive writing lever for students use	•
19	and Wright, P G The activity of the lateral to	128, 32 <i>P</i> , 1955
	veins in a monkey	128 36P, 1955

124	JOURNAL OF PHISIOLOGI	
Luck, C P	Davson, H and The distribution of bicarbonate between aqueous humour, cerebrospinal fluid and plasma in several mammalian species Davson, H and A comparative study of the total carbon dioxide in the ocular fluids, cerebrospinal	<b>130,</b> 48 <i>P</i> , 1955
	fluid, and plasma of some mammalian species	<b>132,</b> 454, 1956
Lucc, J W H	Thresholds of taste for phenylthiocarbamide in various ethnic groups	<b>129,</b> 47 <i>P</i> , 1955
LULLMANN, H	Bülbring, Edith, Holman, Mollie E and Membrane potential and spontaneous activity in calcium deficient striated muscle of the frog Bülbring, Edith, Holman, Mollie E and Effects of	<b>132</b> , 12 <i>P</i> , 1956
LUMB, G A.	calcium deficiency on stricted muscle of the frog Boucot, N G, —, Mahler, R F and Stanbury,	<b>133</b> , 101, 1956
Domb, G 11.	S W The extrarenal buffering of acute respiratory alkalosis in man	132, 63P 1956
LUNDBERG, A	Job, C and Presynaptic facilitation in the sympathetic ganglion of the cat	117, 61 P, 1952
"	Secretory potentials in the sublingual and sub- maxillary glands of the cat	<b>124</b> , 25 <i>P</i> , 1954
Lunnon, Barbaba J	Collins, K J, Hellmann, K, —— and Weiner, J S Effect of heat exposure on urinary excretion of adrenocorticosteroids in man (T)	<b>129,</b> 26 <i>P</i> , 1955
Lussier, J J	and Rushton, $W A H$ The excitability of a single fibre in a nerve trunk	117, 87, 1952
LYMAN, C P	Fawcett, D W and The effect of low environ mental temperature on the composition of depot fat in relation to hibernation	<b>126,</b> 235, 1954
LYNN, R B	McMillan, I K R, Melrose, D G and Churchill- Davidson, H C A demonstration of the reduc- tion of the body temperature in dogs by surface cooling	<b>124</b> , 8 <i>P</i> , 1954
LYTTON, B	and Murray, J G Effects of the perpheral path way on the regeneration of nerve fibres	<b>126</b> , 627, 1954
Lywood, D W	Hilton, S M and A photoelectric drop counter	<b>123</b> , 64 <i>P</i> , 1954
McAllen, Monica K	Herxheimer, H and Recording of cough produced by aerosol	133, 67 <i>P</i> , 1956
McArdle, B	and Merton $P$ $A$ The behaviour of radio potas sum in man	116, 51 <i>P</i> , 1952
McArthur, J	A new form of prismatic microscope (T)	<b>127</b> , 60 <i>P</i> , 1955
McCance, R A	and Widdowson, E M Renal function before and after birth	118, 61 <i>P</i> , 1952
,,	Cort, J H and The relationship of shivering to respiration (T)	118, 62P, 1952
"	Cort, J H and The renal responses to acidosis in infant pupples (T)	120, 22P, 1953
**	Cort, J H and The neural control of shivering in the pig	120, 115, 1953
"	Hines, Bernice E and Pseudo cholinesterase activity in secretions and organs of piglets and pigs	122, 188, 1953
"	Hines, Bernice E and Ammonia formation from glutamine by kidney slices from adult and new born animals	124, 8, 1954

, ~~<u>~</u>

VICCANCE, R. A.	Cort, J H and The renal response of puppies to an acidosis	124, 358, 1954
**	Edholm O G, Fletcher, J G, — and Widdow son, Elsie M Comparison between daily energy expenditure and dietary intake in man	128 19 <i>P</i> , 1955
,	and Widdowson, Elsie M The response of puppies to a large dose of water	129, 628, 1955
,	and Widdowson, Elsie M The size and function of the spleen in young puppies	129, 636, 1955
"	and Widdowson, Elsie M Metabolism, growth and renal function of piglets in the first days of life	133, 373, 1956
McCan, S M	Andersson B and Primary polydipsia produced by osmotic and electrical stimulation of the hypothalamus (Film) (T) Andersson, B and Hypothalamuc control of water	129, 33 <i>P</i> 1955
,	intake	129, 44P, 1955
McCarthy E F	The influence of cortisons on the plasma proteins (T)	118, 68 <i>P</i> , 1952
77	The osmotic pressure of solutions of foetal haemo globin (T)	125, 66P, 1954
McClatcher, H M	Barcroft H Dornhorst A C, —— and Tanner, J M On the action of the sympathetic on the blood vessels in human muscle during rhythmic exercise (T)  Barcroft H, Dornhorst A C —— and Tanner, J M On the blood flow through rhythmically contracting muscle before and during release of	116, 10 <i>P</i> , 1951
W-0 - 7 T	sympathetic vasoconstrictor tone	117, 391 1952
McCormack J I	Conway E J and The total intracellular concentration of mammalian tissues compared with that of the extracellular fluid Geoghegan Honor and Changes in molecular concentration of frozen and powdered tissues maintained at 0° C (T)  Conway E J, Geoghegan, Honor and Autolytic changes at zero centigrade in ground mammalian	120, 1, 1953 125 66 <i>P</i> , 1954
	tissues	130 427, 1955
MACCPEA J	The Clevedon and B.A.C. respirators (T)	124, 53P 1954
McCrea M R	and $Tribe\ D\ E$ The baby pig as a laboratory animal	124 52P 1954
Иссавіу 1 М.	Green J H and Baroceptor activity in hyper tension (T)	132, 19 <i>P</i> , 1956
McCultoch M. S.	Howland B Lettern J Y, —, Pitts W and Wall P D On microelectrodes for plotting currents in nervous tissue	172 8472 10-0
Исревнотт Т Ј	A multi-channel recorder using pulse-time multi- plex techniques	122 24P, 1953
McDonald D A	-	126 7P 1954
	corded by high speed cinematography (T) and Watson D A Cinematography study of	116, 3P 1951
	The velocity of blood flow in the robbit and	116 3P, 1951
	studied with high speed einematography The occurrence of turbulent flow in the rabbit aorta Lateral pulsatile expansion of arteries	118 328 1952 118 340, 1952 119, 28 <i>P</i> 1952

McDonald, D A.	Helps, E P W and Systolic backflow in the dog femoral artery	<b>122</b> , 73 <i>P</i> , 1953
**	Franklin, K J, — and Winstone, N E Parturi tion in the rabbit (Film) (T)	123, 30 <i>P</i> , 1953
"	Helps, E P W and Arternal blood flow calculated from pressure gradients	124, 30 <i>P</i> , 1954
"	$Helps, \hat{E} P W$ and Observations on laminar flow	
**	Arterial flow pattern in relation to changes in	124, 631, 1954
,,	vascular resistance $Helps, E P W and Streamline flow in veins$	125, 36P, 1954 126, 5P, 1954
,,	An apparatus for the analysis of film records	<b>127</b> , 25 P, 1954
,,	Harkness, Margaret L R, Harkness, R D and The collagen and elastin content of the arterial wall	127, 33 <i>P</i> , 1954
"	The relation of pulsatile pressure to flow in arteries	<b>127,</b> 533, 1955
"	Hale, J. F., — and Womersley, J. R. Velocity	
	profiles of oscillating arterial flow, with some calculations of viscous drag and the Reynolds	
	number	128, 629, 1955
**	Hale, $J$ $F$ , —, Taylor, $M$ $G$ and Womersley,	
	J R The counter chronometer method for re	100 07 D 1055
	cording pulse wave velocity  The righting movements of the freely falling cat	<b>129</b> , 27 <i>P</i> , 1955
"	(filmed at 1500 f p s)	129, 34P, 1955
"	Human reflexes and movements analysed with high speed cinematography	130, 4P, 1955
**	and Taylor, M G An investigation of the arterial system using a hydraulic oscillator	133, 74P, 1956
MACDONALD, I	Hunt, J N and The relation between the volume	•
,	of a test meal and the gastric secretory response	117, 289, 1952
**	and Spurrell, W R Sham feeding in man (T)	118, 37P, 1952
***	and Spurrell, W R 'Sham feeding with the pectin meal	119, 259, 1953
"	Hunt, J N and The influence of the volume of a	
	test meal on gastric emptying (T)	120, 23 <i>P</i> , 1953
**	Test meals in rabbits (T)  Hunt, J N and The influence of volume on	123, 51 P, 1954
"	gastric emptying	126, 459, 1954
,,	and Thomas, G A Hepatic fibrosis produced with	474 OF D 1056
** D	a fat free diet	<b>131</b> , 25 <i>P</i> , 1956
McDonald, I R	Denton, D A and The effect of a rapid change of Na+ balance on the Na+/K+ ratio of the parotid salva of Na+ depleted sheep	133, 37 <i>P</i> , 1956
McDougal, Mary D	An inhibitory action of adrenaline abolished by adrenergic blocking drugs	<b>120</b> 64 <i>P</i> , 1953
MACDOUGALL, J D B	Henderson, Anne $E$ and The respiration of arterial tissue (T)	<b>130</b> , 1 <i>P</i> , 1955
McDowall, R J S	Awad, M Z and The effects of anoxia and sodium chloride on the isolated rat diaphragm	116, 30 <i>P</i> , 1951
**	and Zayat, A F Sodium chloride and anoxic cardiac muscle	117, 75P, 1952
**	and Zayat, A F Sodium chloride and cardiac muscle	120, 13 <i>P</i> , 1953
"	and Soliman, A A I Sodium chloride and the response of smooth muscle	122, 42P 1953
**	Awad, M Z E A and The action of mersalyl on	
	the 'sodium pump	<b>123</b> , 1 <i>P</i> , 1953

	_	
*	Harris, A. M., —— and Zayat, A. F. The effects of potassium in the all or none phenomenon	123, 1 <i>P</i> , 1953
"	Hughes, B and The action of D tubocurarine chloride in the rat oesophagus preparation  An artificial circulation—revised model (T)	123, 1 <i>P</i> , 1953 123, 1 <i>P</i> , 1953
**	and Zayat, A F Some reactions of the isolated rat ventricle preparation	123, 2P, 1953
	, Soliman, A A and Wilson, A E The effect of low sodium on tachyphylaxis (T)	123, 2P, 1953
	and Soliman A A I Sodium chloride and the action of drugs	125, 35P, 1954
,	Hercus, V M, — and Mendel, D Sodium ex changes in cardiac muscle	129, 177, 1955
**	, Munro, A F and Zayat A F Sodium and cardiac muscle	130, 615, 1955
"	Jones, J J and The action of adrenaline on the vasomotor mechanism	134, 8P, 1956
**	Hughes F Barbara —— and Soliman, A A I Sodium chloride and smooth muscle	134, 257, 1956
McEvol Bowe, E	Cox E V, Lainer, A L, ——, Raine, Laureen and Ungley, C C Studies on the separation of Castle's intrinsic factor (T)	121, 13 <i>P</i> , 1953
McEwex, L M	The effect on the isolated rabbit heart of vagal stimulation and its modification by cocaine, hexamethonium and ouabain	131, 678, 1956
Macfarlane, R G	Biggs, Rosemary, Douglas A S and The formation of thromboplastin in human blood	119, 89, 1953
,,	Biggs Rosemary, Douglas, A S and The initial stages of blood coagulation	122, 538, 1953
"	Biggs, Rosemary, Douglas, A S and The action of thromboplastic substances	122 554, 1953
Macfarlane, W V	Intracellular records of repetitive activity at the end plate of skeletal muscle fibres	119, 42 <i>P</i> , 1952
McGarri, Eleano	R Franglen, G T, —— and Spencer, A G Renal function and the excretion of potassium in acute alkalosis	121, 35, 1953
MacGregor, Agnes R	Hunter, R B —, Shepherd, D M and West, G B The organs of Zuckerkandl and the suprarenal	, 00, 1000
McGregor I A	medulla  The sweating reactions of the forehead	118, 11 <i>P</i> , 1952
VACHNE LENIA	del Custillo J and Effect of temperature on the passive electrical properties of the muscle fibre	116, 26, 1952
,	membrane  del Castillo J, Hoyle G and Neuromuscular  transmission in a locust	120, 431, 1953
	Burke W Katz, B and The effect of quaternary	121, 539, 1953
McIlros, M B	Ferris B G, — Mead, J, Radford, E P and Whittenberger J L The principles of respiratory mechanics	122, 588, 1953
Nclewain, H	Electrical stimulation of the metabolism of sepa	131, 1 <i>P</i> , 1956
"	Gore Marion B R and Effects of some inorganic salts on the metabolic response of protections.	117 23P, 1952
	malian cerebral cortex to electrical stimulation	117, 471, 1952

McIlwain, H	Characteristics required in electrical pulses for stimulation of the respiration of separated mam malian cerebral tissues	<b>124</b> , 117, 1954
MACINTOSH, F C	Emmelin $N$ and The release of acetylcholine from perfused sympathetic ganglia and skeletal muscles	<b>131,</b> 477, 1956
McIntyre, A K	Eccles J C and The effects of disuse and of activity on mammalian spinal reflexes	<b>121,</b> 492, 1953
MacKenna R M B	, Wheatley, $V \ R$ and Wormall $A$ Squalene and other hydrocarbons in human sebum	<b>127</b> , 36 <i>P</i> , 1954
MacKenzie, J	Healy, M J R, Lockhart, R D, —, Tanner, J M and Whitehouse, R H The prediction of adult human body measurements from measure ments taken from birth to five years	<b>132, 36</b> <i>P</i> , 1956
McKerrow, C M	The effect of respiratory resistance on the maximum columnary ventilation (T)	<b>119</b> , 29 <i>P</i> , 1952
,,	A simple apparatus for measuring the maximum breathing capacity	122, 3P, 1953
MacKichan, D C	Ferguson, $I$ $D$ and $A$ float volume recorder in Perspex	<b>116</b> , 12 <i>P</i> , 1951
McKinna, J A	and Misiewicz, $J$ $J$ The effect of anaesthesia on the blood volume of rabbits	124, 44 P, 1954
McKinnon, Pamela	Variation in palmar sweating during menstrual cycle and during pregnancy (T)	130, 36 <i>P</i> , 1955
Maclagan, N F	Anderson, A J and The isolation and estimation of normal urinary mucoproteins	125, 44 <i>P</i> , 1954
,,	and Wilkinson, J. H. Some differences in the meta bolism of thyroxine and triiodothyronine in the rat	125, 405, 1954
"	and Wilkinson, $J$ $H$ Some differences in the metabolism of thyroxine and truodothyronine in the rat $(T)$	126, 39 <i>P</i> , 1954
MoLennan, H	Brown, G L, —— and Pascoe, J E Failure of ganglionic transmission after postganglionic nerve section	117, 28 <i>P</i> , 1952
,,	Brown G L, — and Pascoe, J E Acetylcholine metabolism of axotomized sympathetic ganglia  Ion exchanges in sympathetic ganglia	118, 60 <i>P</i> 1952 120, 45 <i>P</i> 1953
"	Harris, E J and Cation exchanges in sympathetic ganglia	121, 629, 1953
"	Potassium exchange in ganglia after post ganglionic nerve section	121, 638, 1953
"	and Pascoe, J E Mesenteric preganglionic fibres (T) Acetylcholine metabolism of normal and axoto	123, 13 <i>P</i> , 1953
,,	mized ganglia and Pascoe, $J$ $E$ The origin of certain non medul	<b>124</b> 113, 1954
	lated nerve fibres which form synapses in the inferior mesenteric ganglion of the rabbit Florey, E and The release of an inhibitory sub	124, 145, 1954
,,	stance from mammalian brain, and its effect on peripheral synaptic transmission Florey, E and Effects of an inhibitory factor	<b>129,</b> 384, 1955
"	(Factor I) from brain on central synaptic trans	130, 446, 1955

	INDEA OF HOLHORS	
McLeod, J G	BHELEHIA III (TIO CU)	133, 16 <i>P</i> , 1956
McMichael, J	Cardiac output in man (T)	116, 3P, 1951
McMillan, I K R	, Melrose, D G, Churchill Davidson, H C and Lynn, R B A demonstration of the reduction of the body temperature in dogs by surface cooling Johnson, F R and Healing of artificial ulcers in	124, 8 <i>P</i> , 1954
McVina, R M H	the urnary bladder (T)  Johnson, F R and Fate of transplants of transitional epithelium and the production of hetero	128, 63 <i>P</i> , 1955
	topic bone (T)	128, 63P, 1955
Nenaccht, And B	Absorption of fat from the alimentary tract of the ferret	130, 6P, 1955
McNeul, T A.	Venous oxygen saturation and blood flow during reactive hyperaemia in the human forearm	134, 195, 1956
McPherson, A	and Malcolm J L A constant current skin resistance meter	116, 1 <i>P</i> , 1951
	Kessel, A W L and Blood flow changes in the feet in anterior poliomielitis	120, 24P, 1953
MacPherson, L	and Wilkie, D R The duration of the active state in a muscle twitch	122, 20 <i>P</i> , 1953
17	A method of determining the force velocity relation of muscle from two isometric contractions  Hill, A V and The effect of certain amons on the	122, 172, 1953
"	duration of the active state in skeletal muscle and Willie, D R The duration of the active state	125, 17P, 1954
,,	m a muscle twitch	124, 292, 1954
VACPHERSON, R K	and Newling, P S B Salt concentration and rate of evaporation of sweat	123, 74 <i>P</i> , 1954
***	Fox, R H and The regulation of body tempera ture during fever	125 21 P, 1954
,	Cooper, K E, Edholm O G, Fletcher J G, Fox, R H and Vasodilatation in the forearm	
**	during indirect heating  Edholm O G, Fox, R H and The effect of	
11	cutaneous anaesthesia on skin blood flow  Barcroft H Edholm, O G Foster, C A, Fox,  R H and The effect of nerve block on forearm	132, 15 <i>P</i> , 1956
"	blood flow  Hellon R F Jones, R M, —— and Reiner, J S  Natural and artificial acclimatization to hot	132, 16P, 1956
,	environments  Edholm, O G, Fox R H and The effect of body  heating on the appreliations.	
MACQUEEN A T	heating on the circulation in skin and muscle  The effect of alloxan intravenously on the blood	134, 612, 1956
	pressure of the rabbit The effect of Teepol (a synthetic detergent) on the activity of the guinea pig iloum (T)	118, 9 <i>P</i> , 1952
VIAEGRAITH, B	Andrews W H H and Physiological and	130 8P, 1955
	anatomical evidence of a hepatic arterial hepatic venous shunt (T)  Andrews W H H, Hecler, R — and Ruchic H D Technique of perfusion of the	118, 24 <i>P</i> , 1952
9	canine liver	122, 9 <i>P</i> , 1953
-		

MAEGRAITH, B G	Andrews, W H H, Hecker, R, — and Ritchie, H D On direct connexions between	
"	hepatic artery and hepatic veins in the canine liver  Andrews, W H H, Hecker, R, —— and	<b>122,</b> 51 P 1903
"	Ritchie, H D Constriction within the canine hepatic venous tree	122, 53 <i>P</i> , 1953
"	Andrews, W H H, Hecker, R and The presence of autonomic relays within the liver	123, 73 P, 1954
"	Andrews, W H H, Hecker, R, —— and Ritchie, H D The action of adrenaline, L nor adrenaline, acetylcholine and other substances on the blood vessels of the perfused canine liver	<b>128,</b> 413, 1955
"	Andrews, W H H, —— and Richards, T G Bromsulphthalem abstraction by perfused canine livers	129, 77 <i>P</i> , 19 <sub>0</sub> 5
,,	Andrews, W H H, —— and Richards, T G The effect upon bromsulphalem extraction of the rate and distribution of blood flow in the	<b>222,</b> 000, 000
"	perfused canine liver  Andrews, W H H, Hecker, R and The action of adrenaline, noradrenaline, acetylcholine and histamine on the perfused liver of the monkey,	131, 669, 1956
	cat and rabbit	<b>132</b> , 509, 1956
Mahadeva, K	, Passmore, R and Woolf, B Individual variations in the metabolic cost of standardized exercises the effects of food, age, sex and race	121, 225, 1953
MAHER, F T	Bollman, J. L., —— and Manger, W. M. Plasma concentration of epinephrine and norepinephrine in haemorrhagic and anaphylactic shock	133, 49 <i>P</i> , 1956
MAHLER, R F	Boucot, N G, Lumb, G A, —— and Stanbury, S W The extrarenal buffering of acute respiratory alkalosis in man	132, 63 <i>P</i> , 1956
Maizels, M	Intercellular plasma of centrifuged human erythro cytes	116, 38 <i>P</i> , 1951
"	Clarkson, Evelyn M and Distribution of phos phatases in human erythrocytes Cation exchange in chicken blood	116, 112, 1952 118, 36 <i>P</i> , 1952
	Harris, E J and Distribution of ions in sus pensions of human erythrocytes	118, 40, 1952
,,	Clarkson, Evelyn M and Respiration, glycolysis and sodium transport in chicken erythrocytes  Cation transport in chicken erythrocytes	124 19 <i>P</i> , 1954 125, 263, 1954
"	Clarkson, Evelyn M and Sodium transfer in human and chicken erythrocytes	<b>129,</b> 476, 1955
,	Clarkson, Evelyn M and Sodium transfer in the erythrocytes of sickle-cell anaemia	129, 504, 1955
**	Sodium transfer in tortoise erythrocytes	132, 414, 1956
MALATY, H A	Bourne, $G$ $H$ and The histochemistry of simple esterases $(T)$	119, 6 <i>P</i> , 1952
,,	Bourne G H and The histochemistry of succinic delay drogenase (T)  Bourne, G H and The effect of adrenalectomy	119, 6P, 1952
,,	cortisone and other steroid hormones on the histochemical reaction for succinic dehy drogenase	<b>122,</b> 178, 1953

MALCOLM, J L	McPherson, A and A constant-current skin resistance meter	116, 1 <i>P</i> , 1951
,	Cross K W and Evidence of carotid body and	118, 10 <i>P</i> , 1952
,	Dorsal and root potentials in the new born kitten	118, 50 <i>P</i> , 1952
,	Douglas, W W and The selective depressive action of temperature on somatic sensory nerves (T)  Feldberg, W, —— and Sherwood, S L A method	123, 66 <i>P</i> , 1954
"	of studying the actions of drugs injected intra- ventricularly on evoked responses in the cortex	128, 3 <i>P</i> , 1955
***	and mid brain of the cat (T)  Geriner, S B, —— and Reinert, H Registration of the protrusion of the rat's eyeball to cervical	
,	sympathetic stimulation (T) Metal filled microelectrodes (T)	128, 3 <i>P</i> , 1955 128, 3 <i>P</i> , 1955
	and Perry, W L M A method for recording intracellular potentials from a sympathetic ganglion and Wurzel M The action of cholinesters and	128, 29 <i>P</i> , 1955
•	quaternary ammonium compounds on the spinal cord of the frog	129, 59 <i>P</i> 1955
"	Douglas, W W and The effect of localized cooling on conduction in cat nerves Feldberg, W, —— and Sherwood, S L Some effects	130, 53, 1955
"	of tubocurarine on the electrical activity of the cat's brain	132, 130, 1956
Matmétac J	Action of adrenaline on synaptic transmission and on adrenal medullary secretion	130, 497, 1955
MANEN L	Ardran, $G \ M \ Kemp$ , $F \ H \ and \ Closure$ of the larvax	118, 39 <i>P</i> , 1952
Manger, W M	Bollman J L Maher, F T and Plasma concentration of epinephrine and norepinephrine in haemorrhagic and anaphylactic shock	133, 49 <i>P</i> , 1956
MANYING R L	Lance, J W and Origin of the pyramidal tract in the cat	
W ,/08/2AIL	and Oven E C Chromatographic separation of the paradimethylaminophenyl ureides of lower	
L stroszak	fatty acids (T)  The influence of intrapulmonary pressures on the	121, 41 P, 1953
Markham J W	heart rate  Armstrong Desirce, Dry, R. M. L., Keele, C. A. and	134 6P, 1956
,	Pain producing substances in blister fluid and in serum  Armstrong Desirce Dry R M L , Keele, C A and	117, 4 <i>P</i> , 1952
**	Pain producing actions of tryptamine and 5 hydroxytryptamine  Armstrong Desirce Dry, R. M. L. Keele, C. A. and	117, 70 <i>P</i> , 1952
Marks I N	Observations on chemical excitants of cutaneous pain in man	120, 398, 1029
	Card II I — and Sircus, II Observations on achlorhydria	130 18P 10==
Marriott, F H	C and Pirenne, M H The influence of retinal position and area on the absolute threshold (T)	124, 69 <i>P</i> , 1954
		1004

MARRIOTT, F H C	and Pirenne, M H The absolute light sensitivity of the planarian worm Dendrocoelum lacteum (T)	127, 42 <i>P</i> , 1954
,,	and Pirenne, M H Quantum fluctuations and un certainty of seeing at the absolute threshold (T)	<b>129</b> , 62 <i>P</i> , 1955
MARSHALL, JEAN M	and Vaughan Williams, E M The effects of low temperatures on the electrical and mechanical activity of the isolated rabbit auricle and Vaughan Williams, E M Pacemaker potentials	<b>128,</b> 4 <i>P</i> , 19 <sub>0</sub> 5
"	in isolated rabbit auricles at low temperatures (T)	129, 3P, 1955
,,	and Vaughan Williams, E M Pacemaker potentials The excitation of isolated rabbit auricles by acetylcholine at low temperatures	131, 186, 1956
MARSHALL, R J	, Shepherd, J T and Thompson, I D Vascular responses in persons with high serum titres of cold agglutinins	118, 69 <i>P</i> , 1952
Marsland, T A	Gless, P and Degeneration of pyramidal fibres studied by a paraffin silver method	118, 51 <i>P</i> , 1959
MARTIN, A R	The effect of change in length on conduction velo- city in frog muscle	124, 22 <i>P</i> , 1954
***	The effect of change in length on conduction velo- city in muscle	125, 215, 1954
"	Boyd, I A and Miniature end plate potentials in isolated mammalian muscle	128, 30 <i>P</i> , 1955
"	Boyd, I A and The quantal composition of the mammalian end plate potential	129, 14 <i>P</i> , 1955
"	A further study of the statistical composition of the end plate potential	130, 114, 1955
"	Boyd, I A and Spontaneous subthreshold activity at mammalian neuromuscular junctions	132, 61, 1956
,,	Boyd, I A and The end plate potential in mam	132, 74, 1956
MARTIN, B F	The histochemical test for lipase	119, 24P, 1952
**	The possibility of fat excretion in the large intestine (T)	128, 63P, 1955
MARTIN, H B	Campbell, E J M, Enns, T, —— and Shepard, R H Factors affecting the pulmonary dead space as determined by single breath analysis (T)	130, 57 <i>P</i> , 1955
Martins Ferreira H	Keynes, R D and Resting and action potentials in the electric organ	116, 26P, 1951
	Keynes, R D and Membrane potentials in the electroplates of the electric eel	119, 315, 1953
Maruhashi, J	, Mizuguchi K and Tasaki, I Action currents in single afferent nerve fibres elicited by stimulation of the skin of the toad and the cat	117, 129, 1952
Masso, M J	and Phillipson, A T The composition of the digesta leaving the abomasum of sheep	116, 98, 1952
MASTERTON, J P	Lewis, H E and The influence of a Polar environment on sleep wakefulness patterns in man	129, 82 <i>P</i> , 1955
Matallada, A	Kosterlitz, H W Krayer, O and The effect of moderately large doses of veratramine and ver atrosine on the rhythm of the acutely denervated heart of the cat	124, 40 <i>P</i> , 1954
Матснетт, Р А	Datson, H, —— and Roberts J R E Comparative studies of the distribution of chloride between plasma and aqueous humour	116, 47 <i>P</i> , 1952

	INDDIT OF BUXILDER	
MATCHETT, P A.	Davson H and The kinetics of penetration of the blood aqueous barrier	122, 11, 1953
Mathias, A. P	Holdstocl, D J, —— and Schachter, M A comparative study of kinin, kallidin and bradykinin	133, 14 <i>P</i> , 1956
MATTHEWS, B H C	An oil-operated microelectrode manipulator (T) Hydraulic models relating to analysis of sound by	117, 44P, 1952
"	the cochlea Alans, Jesus and The mechano receptor pro	117, 44 <i>P</i> , 1952
,	perties of central neurones	117, 59 <i>P</i> , 1952
**	An amplifier for local and spike potentials	122, 2P, 1953
,	Current flow in the central nervous system	122, 22P, 1953
**	Adaptation to centrifugal acceleration	122 31 P, 1953
77	Elementary teaching models of (a) eye, and (b) resonators (T)	125, 14 <i>P</i> , 1954
,,	Intracellular and extracellular potentials from the spinal cord (T)	125, 14 <i>P</i> , 1954
,,	Donaldson, P E K and A vectograph for extra cellular currents in grev matter	129, 35P 1955
"	Donaldson P E K and Action currents within the central nervous system	129, 58 <i>P</i> , 1955
11	Tendon reflexes in free fall	133, 31 <i>P</i> , 1956
MATTHEWS D VI	and Smyth, D H Stereochemically specific ab sorption of alanine from the intestine into the blood stream	116, 20 <i>P</i> 1951
,	and Wiseman, G Transamination by the small intestine of the rat	120, 55 <i>P</i> , 1953
11	and Smyth D H The effect of temperature on the rate of transference of D L alanine through the intestinal wall and Smyth D H The intestinal absorption of amino acid enantiomorphs	122, 76 <i>P</i> , 1953 126, 96, 1954
VATTHEWS PBC	Douglas W W and Acute tetraeth lpvrophos phate poisoning in cats and its modification by atropine or hyoscine and Rushworth G The differential effects of procaine narcosis of nerve to soleus on tendon jerk and motor twitch (T)	116, 202, 1952 126, 11 <i>P</i> , 1954
**	and Rushworth G Differential nerve narcosis with procaine	131, 30 <i>P</i> , 1956
VATTON G	Carotid sinus and neurogenic and renal hyper tension	126, 13 <i>P</i> , 1954
MAURICE, D	Isometric lever for small forces	
VAURICE D VI	Constriction of the pupil in the rabbit by anti-	122, 8 <i>P</i> , 1953 123, 45 <i>P</i> 1953
•	An acoustic analogue showing the structural basis of the transparency of the cornea (T) The submicroscopic structure of the cornea	132, 30 <i>P</i> 1956 132 38 <i>P</i> 1956
Nawson C A	Elevate P V, Fischer M Isabel — and Millar M Jean The effect of zinc deficiency on the male genital system	
May, A. J.	Hughes R —— and Widdicombe, J G Efficiency of filtration by the pophteal lymph node of the rabbit	
		130, 40P, 1955

MATCHETT, P A

MARRIOTT, F H C	and Pirenne, M H The absolute light so of the planarian worm Dendroccelum lac
,,	and Pirenne, M H Quantum fluctuations
"	certainty of seeing at the absolute thre
MARSHALL, JEAN M.	and Vaughan Williams, E M The effect
<b>,</b>	temperatures on the electrical and mo
	activity of the isolated rabbit auricle
***	and Vaughan Williams, E. M. Pacemaker po
	in isolated rabbit auricles at low temperat
"	and Vaughan Williams, E M Pacema
	tentials The excitation of isolated
	auricles by acetylcholine at low tempera
MARSHALL, R J	Shepherd, J T and Thompson, I D V responses in persons with high serum toold agglutinins
MARSLAND, T A	Glees, P and Degeneration of pyramidal studied by a paraffin silver method
MARTIN, A R	The effect of change in length on conduction city in frog muscle
,,	The effect of change in length on conduction city in muscle
"	Boyd, I A and Miniature end plate potenti isolated mammalian muscle
,,	Boyd, I A and The quantal composition o mammalian end plate potential
,,	A further study of the statistical composition o end plate potential
**	Boyd I A and Spontaneous subthreshold:
**	vity at mammalian neuromuscular junctions Boyd, I A and The end plate potential in m
	malian muscle
Martin, B F	The histochemical test for lipase
**	The possibility of fat excretion in the la intestine (T)
MARTIN, H B	Campbell, E J M, Enns, T, —— and Shepa R H Factors affecting the pulmonary dead spi as determined by single breath analysis (T)
MARTINS FERREIRA,	Keynes, R D and Resting and action potentia
H	in the electric organ  Keynes, R D and Membrane potentials in the electroplates of the electric eel
Манинавиї, Ј	, Mizuguchi, K and Tasaki, I Action currents in single afferent nerve fibres elicited by stimulation of the skin of the toad and the cat
Masson, M J	and Phillipson, A. T. The composition of the digestaleaving the abomasum of sheep
MASTERTON, J P	Lewis, H E and The influence of a Polar environment on sleep wakefulness patterns in man
MATALLANA, A	Kosterlitz, H. W., Krayer, O. and The effect of moderately large doses of veratramine and ver- atrosine on the rhythm of the acutely denervated heart of the cat
~ .	Donas II and Dalanta I D F Comparative

Datson H, — and Roberts, J R E Comparative studies of the distribution of chloride between

MATCHETT, P A.	Davson, H and The kinetics of penetration of the blood aqueous barrier	122, 11, 1953
MATHIAS, A P	Holdstock, D J, —— and Schachter, M A comparative study of kinin, kallidin and bradykinin	133, 14 <i>P</i> , 1956
Matthews, B H C	An oil-operated microelectrode manipulator (T) Hydraulic models relating to analysis of sound by	117, 44P, 1952
"	the cochlea	117, 44P, 1952
"	Alanis, Jesus and The mechano receptor pro- perties of central neurones	117, 59 <i>P</i> , 1952
71	An amplifier for local and spike potentials	122, 2P, 1953
	Current flow in the central nervous system	122, 22P, 1953
**	Adaptation to centrifugal acceleration	122, 31P, 1953
"	Elementary teaching models of (a) eve, and	
**	(b) resonators (T)	125, 14P, 1954
"	Intracellular and extracellular potentials from the spinal cord (T)	125, 14P, 1954
"	Donaldson P E K and A vectograph for extra cellular currents in grey matter	129, 35P, 1955
"	Donaldson, P E K and Action currents within the central nervous system	129, 58P, 1955
>>	Tendon reflexes in free fall	133, 31 <i>P</i> , 1956
MATTHEWS, D M	and Smyth D H Stereochemically specific ab sorption of alanine from the intestine into the blood stream	116, 20 <i>P</i> 1951
**	and Wiseman, G Transamination by the small intestine of the rat	120, 55P, 1953
,	and Smyth D H The effect of temperature on the rate of transference of D L alanine through the intestinal wall  and Smyth D H The intestinal absorption of amino acid enantiomorphs	122 78 <i>P</i> , 1953 126, 96, 1954
VATTHEWS PBC	Douglas W W and Acute tetraeth lpyrophos phate poisoning in cats and its modification by atropine or hyoscine and Rushworth G The differential effects of procaine narcosis of nerve to soleus on tendon jerk and motor twitch (T) and Rushworth G Differential nerve narcosis with procaine	116, 202, 1952 126, 11 <i>P</i> , 1954 131, 30 <i>P</i> , 1956
VLATTO\ G	Carotid sinus and neurogenic and renal hyper tension	126, 13 <i>P</i> , 1954
MAURICE D	Isometric lever for small forces	
MAURICE, D M	Construction of the pupil in the rabbit by anti	122, 8P, 1953
,	dromic stimulation of the trigeminal nerve An acoustic analogue showing the structural basis	
,	of the transparency of the cornea (T) The submicroscopic structure of the cornea	132, 30 <i>P</i> , 1956 132, 38 <i>P</i> , 1956
NAMEON C 4	Elcoate P V Fischer W Isabel — and Willar W Jean The effect of zinc deficiency on the male genital system	
MAY A J	Hughes, R —— and Widdicombe J G Efficiency of filtration by the popliteal lymph node of the rabbit	· · · · · · · · · · · · · · · · · · ·
		130, 40P 1955

MARRIOTT, F H C	and Pirenne, M H The absolute light sensitivity of the planarian worm Dendrocoelum lacteum (T)	127 49 P 10-4
**	and Pirenne, M H Quantum fluctuations and uncertainty of seeing at the absolute threshold (T)	127, 42 <i>P</i> , 1954 129, 62 <i>P</i> , 1955
Marshall, Jean M	and Vaughan Williams, E M The effects of low temperatures on the electrical and mechanical	227, 422 , 2000
,,	activity of the isolated rabbit auricle and Vaughan Williams, E. M. Pacemaker potentials	128, 4 <i>P</i> , 1955
"	in isolated rabbit auricles at low temperatures (T) and Vaughan Williams, E M Pacemaker potentials The excitation of isolated rabbit auricles by acetylcholine at low temperatures	129, 3 <i>P</i> , 1955 131, 186, 1956
Marshall, R J	, Shepherd, J T and Thompson, I D Vascular responses in persons with high serum titres of cold agglutinins	118, 69 <i>P</i> , 195°
Marsland, T A	Glees, P and Degeneration of pyramidal fibres studied by a paraffin silver method	118, 51 <i>P</i> , 1952.
Martin, A R	The effect of change in length on conduction velocity in frog muscle	124, 22 <i>P</i> , 1954
,,	The effect of change in length on conduction velocity in muscle	125, 215, 1904
**	Boyd, I A and Miniature end plate potentials in isolated mammalian muscle	128, 30 <i>P</i> , 1955
"	Boyd, I A and The quantal composition of the mammalian end plate potential	129, 14P, 1955
,,	A further study of the statistical composition of the end plate potential	130, 114, 1955
**	Boyd, I A and Spontaneous subthreshold activity at mammalian neuromuscular junctions	<b>132,</b> 61, 1956
"	Boyd, I A and The end plate potential in mam malian muscle	132, 74, 1956
MARTIN, B F	The histochemical test for lipase	119, 24P, 1952
,,	The possibility of fat excretion in the large intestine (T)	128, 63 <i>P</i> , 1955
MARTIN, H B	Campbell, E J M, Enns, T, —— and Shepard, R H Factors affecting the pulmonary dead space as determined by single breath analysis (T)	130, 57 <i>P</i> , 1955
Martins Ferreira, H	Keynes, R D and Resting and action potentials in the electric organ	116, 26 <i>P</i> , 1951
	Keynes, R D and Membrane potentials in the electroplates of the electric eel	119, 315, 1953
MARUHASHI, J	, Mizuguchi, K and Tasaki, I Action currents in single afferent nerve fibres elicited by stimulation of the skin of the toad and the cat	<b>117,</b> 129, 1952
Masson, M J	and $Phillipson$ , $A T$ The composition of the digesta leaving the abomasum of sheep	116, 98, 1952
MASTERTON, J P	Lewis, H E and The influence of a Polar environment on sleep wakefulness patterns in man	129, 82 <i>P</i> , 1955
MATALLANA, A	Kosterlitz H W, Krayer, O and The effect of moderately large doses of veratramine and ver atrosine on the rhythm of the acutely denorvated heart of the cat	124, 40 <i>P</i> , 1954
Матснетт, Р А	Datson, H, ——and Roberts, J R E Comparative studies of the distribution of chloride between plasma and aqueous humour	116, 47 <i>P</i> , 1952

	III DDM OI MOLMON	
VLATCHETT, P A.	Dauson, H and The kinetics of penetration of the blood aqueous barrier	122, 11, 1953
Mathias, A. P	Holdstock, D J, —— and Schachter, M A comparative study of kinin, kallidin and bradykinin	133, 14 <i>P</i> , 1956
Matthews, B H C	An oil-operated microelectrode manipulator (T) Hydraulic models relating to analysis of sound by	117, 44 <i>P</i> , 1952
,,	the cochlea  Alans, Jesus and The mechano receptor pro	117, 44P, 1952
"	perties of central neurones	117, 59P, 1952
,,	An amphifier for local and spike potentials	122, 2P, 1953
"	Current flow in the central nervous system	122 22P, 1953
**	Adaptation to centrifugal acceleration	122, 31 <i>P</i> , 1953
•	Elementary teaching models of (a) eve, and (b) resonators (T)	125, 14P, 1954
,,	Intracellular and extracellular potentials from the spinal cord (T)	125 14P, 1954
,,	Donaldson P E K and A vectograph for extra cellular currents in grev matter	129, 35 <i>P</i> , 1955
**	Donaldson, P E K and Action currents within the central nervous system	129, 58 <i>P</i> , 1955
**	Tendon reflexes in free fall	133, 31 P, 1956
Matthews, D M	and Snigth D H Stereochemically specific ab sorption of alanine from the intestine into the blood stream	116, 20 <i>P</i> , 1951
"	and Wiseman, G Transamination by the small intestine of the rat	120, 55P, 1953
"	and Smyth D H The effect of temperature on the rate of transference of D L alanine through the intestinal wall and Smyth D H The intestinal absorption of	122, 76 <i>P</i> , 1953
	amino acid enantiomorphs	126, 96 1954
VATTHEWS PBC	Douglas II W and Acute tetraeth lpyrophos phate poisoning in cats and its modification by atropine or hyoscine and Rushworth G The differential effects of procaine narcosis of nerve to soleus on tendon jerk.	116, 202, 1952
,,	and motor twitch (T)  and Rushworth G Differential nerve narcosis with	126, 11 <i>P</i> , 1954
VATTON, G	procame  Carotid sinus and neurogenic and renal hyper	131, 30 <i>P</i> , 1956
•	tension	126, 13 <i>P</i> , 1954
MAURICE D	Isometric lever for small forces	122, 8P, 1953
MAURICE D 11	Constriction of the pupil in the rabbit by anti- dromic stimulation of the trigeminal nerve An acoustic analogue showing the structural basis	122 4570 2000
"	of the transparency of the cornea (T)  The submicroscopic structure of the cornea	132, 30 <i>P</i> , 1956 132, 38 <i>P</i> 1956
MAWSON C A	Elcoate P V Fischer M Isabel — and Millar W Jean The effect of zinc deficiency on the male genital system	
Ма1, A J	Hughes R — and Widdicombe J G Efficiency of filtration by the popliteal lymph node of the	
	rabbit	130, 40P 1955

#### JOURNAL OF PHYSIOLOGY

May, A J	Hughes, R, —— and Weddecombe, J G The output of lymphocytes from the lymphatic system of	•
**	the rabbit and Whaler, B C The absorption of Clostridium botulinum toxin from the alimentary canal	132, 384, 1956 132, 64 <i>P</i> , 1956
Marron Agarna	· ·	
MAYER, AGNES	Buxton, Joyce, —— and Sinclair, H M Histamine levels in the pyridoxin deficient rat	<b>131,</b> 17 <i>P</i> , 1956
MAYNARD, F L	Fullon, G P —— and West, G B Tissue mast cells in the hamster	<b>124,</b> 29 <i>P</i> , 1954
MEAD, J	Ferris, B. G., McIlroy, M. B., —, Radford, E. P. and Whittenberger, J. L. The principles of respiratory mechanics	131, 1 <i>P</i> , 1956
Meda, E	Gibson, Q H, Kreuzer F, — and Roughton, F J W The kinetics of human haemoglobin in solution and in the red cell at 37° C	<b>129, 65,</b> 1955
Meikle, R W	Conway, H, — and Simpson, J A Tubeless gastric analysis	121, 41 <i>P</i> , 1953
Mellanby, E	Fell, Honor B and The effect of hypervitaminosis A on embryonic limb bones cultivated in vitro	116, 320, 1952
***	Fell, Honor B and Metaplasia produced in cultures of chick ectoderm by high vitamin A	119, 470, 1953
"	Fell, Honor B and The biological action of thyroxine on embryonic bones grown in tissue culture	127, 427, 1985
"	Fell Honor B and The effect of L truodothyronine on the growth and development of embryonic chick limb bones in tissue culture	133, 89, 1956
"	Fell, H B ——, the late and Pelc S R Influence of excess vitamin A on the sulphate metabolism of bone rudiments grown in vitro	134, 179, 1956
Melrose, D G	, Churchill Davidson, H C Lynn R B, and McMillan, I K R A demonstration of the reduction of the body temperature in dogs by	104 07 1051
,,	surface cooling A heart lung machine for use in man	124, 8 <i>P</i> , 1954 127, 51 <i>P</i> , 1955
Mendel, D	Bernstein L and A spirometer which can be used at high respiratory rates	119, 3 <i>P</i> , 1952
,,	Hercus, V M, McDowall R J S and Sodium exchanges in cardiac muscle	129 177, 1955
**	Grayson J and Temperature responses in rat liver and abdomen following cold exposure Grayson, J and The distribution and regulation of	129, 63P, 1955
,	temperature in the rat	133, 334, 1956
MENKIN, V	Studies on the mechanism of cell division	133, 50P, 1956
Merrick, A J	Crossland J and The effect of anaesthesia on the acetylcholine content of brain	125 56, 1954
MERTON P A	A scintillation $\gamma$ counter for radio potassium	116 44P, 1952
**	McArdle, B and The behaviour of radio potassium in man	116, 51P, 1952
**	Eldred E, Grant R and Supraspinal control of the muscle spindles and its significance  Eldred E, Grant R Holmgren B and Proprio	122, 498, 1953
**	ceptive control of muscular contraction and the	123 46 <i>P</i> , 1953

cerebellum

123, 46P, 1953

	••••	
MERTON, P A.	Holmgren, B and Local feedback control of motoneurones Voluntary strength and fatigue Interaction between muscle fibres in a twitch Granit, R, Holmgren, B and The two routes for	123, 47 <i>P</i> , 1953 123, 553, 1954 124, 311, 1954
,	excitation of muscle and their subservience to the cerebellum Compensatory rolling movements of the eve	130, 213, 1955 132, 25 <i>P</i> , 1956
Meyerstein, W	Reversal and rehef pictures produced with blood films (T)	134, 6 <i>P</i> , 1956
Vikulicic, V	Durnin, J V G A and The effects of graded exercises on the energy expenditure and heart rates of young and elderly men	131, 22 <i>P</i> , 1956
Mues, A A	and Miles, E. M. Vascular reactions to histamine, histamine liberator and leukotaxine in the skin of guinea pigs.  Feldberg W. and Regional variations of increased permeability of skin capillaries induced by a histamine liberator and their relation to the histamine content of the skin.	118, 228, 1952 120, 205, 1953
Miles, A E W	Polyethylene glycols as histological embedding agents (T)	119, 7 <i>P</i> , 1952
VILES B E	and de Wardener, H E Renal vasoconstriction produced by ether and cyclopropane anaesthesia and de Wardener, H E Intrarenal pressure, Ventom M G and de Wardener, H E Observations on the mechanism of circulatory autoregulation in the perfused dogs kidney	118, 140, 1952 123, 131, 1954 123, 143, 1954
Mnes, E M	Miles A A and Vascular reactions to histamine histamine liberator and leukotaxine in the skin of guinea pigs	118, 228, 1952
MILLAR VI JEAN	Elcoate, P V, Fischer M Isabel, Mawson, C A and The effect of zinc deficiency on the male genital system	129, 53 <i>P</i> , 1955
VILLEP G A H	Banister Jean and The effect of Ca ions on the vagal inhibition of the perfused anuran heart as measured by changes in the electrocardiogram	118 23 <i>P</i> 1952
VILLER H	Alpatrick R — Munro D S Renschler H and Wilson G M A comparison of the distri- bution of 42K and 86Rb in the rabbit	129 5170 4055
Mills J X	The use of an infra red analyser in testing the properties of Douglas bags Relationship between acid and electrolyte outputs	116 920 1051
	in the renal diurnal rhythm (T) and Stanbury S W Persistent 24 hour renal	117, 79 P, 1952
	excretors rhythm on a 12 hour cycle of activity  Longson D and Excess carbon dioxide and	117, 22, 1952
	morning urine Alveolar carbon dioxide tension during alcon	118 6P, 1952
	and Thomas S Reappearance of renal excretors rhythms after forced disruption Changes in alveolar carbon dioxide tension by	
	Long-on D and The failure of the Lidner of	100 0-
	respond to respiratory acidosis	122, 81, 1953

MILLS, J N	Cole, P and Modification of Haldane gas analysis apparatus for use by junior students  Longson, D, —, Thomas, S and Yates, P A	<b>124,</b> 60 <i>P</i> , 1954
"	Tubular maxima for phosphate reabsorption in man (T)	<b>125,</b> 66 <i>P</i> , 1954
"	, Thomas, S and Yates, P A Reappearance of renal excretory rhythm after forced disruption	<b>125,</b> 466, 1954
,,	The acute response to potassium ingestion	<b>128,</b> 47 <i>P</i> , 1955
,,	, Thomas, S and Yates, P A Assessment of voluntary bladder emptying in man	<b>129,</b> 408, 1955
"	and Thomas, S The influence of cortisone upon the distribution of phosphate in man	131, 9 <i>P</i> , 1956
**	Longson, D, —, Thomas, S and Yates, P A Handling of phosphate by the human kidney at high plasma concentration	<b>131</b> , 555, 1956
Milne,	Dawes, G S,, Mott, Joan C and Widdi	
ELEANOR, D F	$combe, J \ G$ The patency of the ductus arteriosus after birth	<b>122</b> , 37 <i>P</i> , 1953
"	Dawes, G S, —, Mott, Joan C, and Widdi combe, J G The closure of the foramen ovale after birth	<b>122,</b> 38 <i>P</i> , 1953
MILTON, G W	Armstrong, H I O, — and Smith, A W M Electropotential changes of the small intestine	131, 147, 1956
"	and Smith, A W M The pacemaking area of the duodenum	132, 100, 1956
Miranda, M	Harris, $E \ J$ and The prolongation of facilitation in the electric eel by anticholinesterases	<b>130</b> , 24 <i>P</i> 1955
Misiewicz, J J	$McKnna\ J\ A\ and$ The effect of anaesthesia on the blood volume of rabbits	124, 44 P, 1954
MITCHELL, G A G	The peripheral terminations of autonomic nerves (T)	132, 70 <i>P</i> , 19a6
MITCHELL, J F	Crossland J and The action of brain extracts, acetylcholine and histamine on the electrical	<b>129,</b> 19 <i>P</i> , 1955
"	activity of the cerebellum  Crossland, J and The effect on the electrical activity of the cerebellum of a substance present in cerebellar extracts	132, 391, 1956
35 C O	_	, ,
MITCHELL, S Q	Booker, W M, DaCosta, Frances — and Shelton, M Further studies on the effects of cortisone and its congeners on the intact and perfused heart	133, 45 <i>P</i> 1956
Mizuguchi, K	Maruhashi, J, —— and Tasaki, I Action currents in single afferent nerve fibres elicited by stimulation of the skin of the toad and the cat	117, 129, 1952
Mole, R H	Burn, J H, Kordik Pamela and Effect of X ir radiation on the cholinesterase in rat intestine	116, 5P, 1951
MOLINA, A F DE	see de Molina, A F	
Mollison, P L	Crauford H and Reversal of electrolyte changes in stored red cells after transfusion	<b>129,</b> 639 1955
Molyneul, L	and Pask E A Another clinical instrument for the recording of systolic and diastolic pressure continuously (T)	121, 13 <i>P</i> , 1953

Molyneux, L	and Pask, E. A. A clinical pneumotachograph and volume integrator using mainly standard	121, 13 <i>P</i> , 1953
**	equipment (T)  Catton, W T and A new stimulator using a transistor relaxation oscillator	128, 27 <i>P</i> , 1955
Moncrieff, R W	The characterization of odours The sorptive properties of the olfactory membrane Olfactory adaptation and odour likeness	125, 453, 1954 130, 543, 1955 133, 301, 1956
Mongar, J L	and Schild, H O Parallelism between the effects of anaphylactic shock and of a synthetic hist amine releaser	116, 31 <i>P</i> , 1951
"	and Whelan, R F Adrenalme as a histamine liberator in man and Schild, H O A comparison of the effects of	118, 66P, 1952
,	anaphylactic shock and of chemical histamine releasers	118, 461, 1952
"	Quantitative measurement of histamine release by a series of primary amines	119, 48P, 1952
"	Quantitative methods for measuring the actions of histamine releasers (T) and Whelan, R. F. Histamine release by adrenaline	120, 38 <i>P</i> , 1953
**	and p tubocurarine in the human subject	120, 146, 1953
11	Arunlalshana, O —— and Schild, H O Potentiation of pharmacological effects of histamine by histaminase inhibitors	123, 32, 1954
,	New method for testing local anaesthetics in man (T)	124, 10 <i>P</i> , 1954
"	and Schild, H O The effect of histamine releasers and anaphylaxis on intracellular particles of guinea pig lung and Schild H O Inhibition of anaphylaxis and Schild, H O Effect of antigen and organic bases on intracellular histamine in guinea pig lung and Schild, H O Inhibition of the anaphylactic reaction in vitro and in vivo	126, 44 <i>P</i> , 1954 130 40 <i>P</i> 1955 131, 207, 1956 132, 30 <i>P</i> , 1956
Vontagna, V	Beel ett, Evelyn B Bourne, G H and Histology and evtochemistry of human skin The distribution of cholinesterase in the finger of the embryo and the adult	134, 202, 1956
Montage Katharine A	The effect of adrenaline on the rat diaphragm preparation depressed by excess potassium On the mechanism of action of adrenaline in	<b>125</b> , 225, 1954
Manne D. D.	skeletal nerve muscle	128 619, 1955
MOORE R E	Determination of B V.R in rats, comparison of a thyroidectomized with a normal rat (T) The early metabolic effects of single injections of	116 50 D 1023
**	thyroid hormone The effect of hypoxia on the oxygen consumption	120 477 1000
,	of newborn dogs  Hypoxia oxygen consumption and body tempera ture in new born kittens	131, 27P, 1956
MORALFIL BRIN	DAE Harkness Margaret L R Harkness R D and	133, 69P, 1956
	Effect of hormones on the collagen content of the rat s uterus	•
	The Sav Butteries	128, 16 <i>P</i> , 1955

Moralee, Brenda E	Harlness, R D and The disappearance of collagen from the rat's uterus during post partum invo	129 EOD 10E.
,	lution  Harkness, R D and The time course and route of loss of collagen from the rat's uterus during post partum involution	128, 50 <i>P</i> , 195 <sub>0</sub> 132, 502, 19 <sub>0</sub> 6
MOREIRA, M F	Edholm, O G, — and Werner, Attie Yvonne The measurement of forearm blood flow during a raised venous pressure	125 41 P, 1954
,	Edholm O G, — and Werner, Attie Yvonne The effect of a raised venous pressure on venous oxygen content of the forearm (T)	125, 57 <i>P</i> , 1954
,,	, Mottram, R F and Werner, Attre Yvonne Effect of venous pressure on the oxygen content of venous blood in the deep forearm veins	133, 255, 1956
Morgan, H G	Effects of cortisone on calcium and phosphorus metabolism in infants with hypercalcaemia (T)	<b>130</b> , 6 <i>P</i> , 1955
Morgan, R S	Davies, Joan R, —, Wright, E A and Wright, G Payling The results of direct injections of botulnum toxin into the central nervous system	120 819 1057
a .	of rabbits	120, 618, 1953
Morris, G. A. Morrison, Brenda	Burns, W and A recording audiometer  An experimental oxygen box to give concentrations up to 95% O <sub>1</sub> and incorporating humidifying and cooling devices	131, 4 <i>P</i> , 1956 127, 50 <i>P</i> , 1955
Morrison, S D	Cumming, Mary C and A closed circuit respiration calorimeter for long period measurement of twenty four hour total metabolic exchanges in	121, 35 <i>P</i> , 1953
,,	the rat (T)  Garven, H S D and A simple projection apparatus for histological drawings  Total expenditure of energy by adult non pregnant	121, 35 <i>P</i> , 1953
	female rats	122, 47P, 1953
,,	A method for the calculation of metabolic water	122, 399, 1953 123, 38 <i>P</i> , 1953
,,	Total expenditure of energy by pregnant rats Water balance of pregnant rats	125, 381, 1054 125 48 <i>P</i> , 1954
,,	Cumming, Mary C and Total energy expenditure	
-	during fasting and re feeding of rats The total energy metabolism of non pregnant rats	127, 10 <i>P</i> , 1954 127, 479, 1955
,	Huggett, A St G and Placental glycogen in the	
•	rabbit	129, 68P, 1955
	The nitrogen balance of pregnant rats  The total energy and water metabolism during pregnancy in the rat	133, 167, 1956 134 650, 1956
Morton, H B	Cobb, W A and A mechanical shutter giving brief rectangular light pulses at low repetition rates (T)	123 29 <i>P</i> , 1953
**	Cobb, WA, — and Wright MK A universal head holder (T)	123 30P, 1953
,,	Cobb, W A and A new component of the human electrorotinogram	123 36P, 1953
NOTE JOAN C	Dawes, G S, — and Widdicombe J G Carotid and aortic body stimulants in the dog	117 34P 1952
,,	The circulation of the thoracic cage during haemorrhage	117, 64 <i>P</i> , 1952 118, 24 <i>P</i> , 1952
**	Danes G S —— and Vane J R A flowmeter (T)	110, 241, 1002

	INDEX OF AUTHORS	
MOTT, JOAN C	Dawes, G S,, Widdicombe, J G and Wyatt,	
morr, von	D G The effect of ventilation on pulmonary blood flow in the new born lamb  Dawes, G S, —— and Vane, J R The density	118, 45P, 1952
"	flowmeter, a direct method for the measurement of the rate of blood flow	<b>121</b> , 72, 1953
**	The circulation of the thoracic cage in the dog and its reaction to haemorrhage	121, 80, 1953
,,	Dawes, G. S., —, Widdicombe, J. G. and Wyatt, D. G. Changes in the lungs of the new born lamb	121, 141, 1953
"	Dawes, G S, Milne Eleanor D F, —— and Widdicombe, J G The patency of the ductus arteriosus after birth	122, 37 <i>P</i> , 1953
"	Dawes G S, Milne, Eleanor D F, —— and Widdicombe, J G The closure of the foramen ovale after birth	<b>122</b> , 38 <i>P</i> , 1953
,	Dawes, G S and The murmur from the patent ductus arteriosus in the new born lamb (T)	126, 11 <i>P</i> , 1954
"	Dawes, G S, —— and Widdicombe, J G The circulation of blood in the foetal lamb	126, 38 <i>P</i> , 1954
,,	Dawes, G. S.,——and Widdicombe, J. G. The foetal circulation in the lamb	126, 563, 1954
"	Born, G V R, Dawes G S and The viability of premature lambs (T)	<b>127,</b> 9 <i>P</i> , 1954
•	Born, G V R Dawes G S, —— and Rennick Barbara R The relief of central cyanosis due to venous admixture by reconstitution of the ductus	
	arteriosus  Daves G S, ——, and Widdicombe, J G The cardiac murmurfrom the patent ductus arteriosus	127, 53 <i>P</i> , 1955
,	in newborn lambs  Dawes $G$ $S$ —— and Widdicombe, $J$ $G$ The	128 344, 1955
	patency of the ductus arteriosus in new born lambs and its physiological consequences  Daires G S, —— and Widdicombe, J G Closure	128, 361, 1955
,,	of the foramen ovale in new born lambs  Born G V R, Dawes, G S — and Rennick,  Barkers R. The machine of control of the second o	128, 384, 1955
,	Barbara R The mechanism of constriction of the ductus arteriosus in the new born lamb Amoroso, A C Daves G S —— and Renwick,	129, 28P, 1955
	Barbara R Occlusion of the ductus venosus in the mature foetal lamb  Born G V R Dawes, G S, — and Rennicl, Barbara R The relief of central cyanosis caused	129, 64P 1255
	by pulmonary arterio venous shunts by con struction of an artificial ductus arteriosus Born G V R Daires G S and The viability of	130, 167, 1955
	premature lambs  Circulation and respiration in the tortoise  Born G V R Dawes G S — and Rennick,  Barbara R The constriction of the ductus arterio	130, 191, 1955 130, 51 <i>P</i> , 1955
	born lambs	132 304 1956
	Acheson G H, Dauces G S and Relation of O- consumption of foetal and new born lambs to the arterial O saturation	
	Dauce G S, — and Rennick Barbara R Some effects of adrenaline noradrenaline and and a	133 11P 1956
	choline on the foetal circulation in the lamb	134 139, 1956

#### JOURNAL OF PHYSIOLOGY

Mott, Joan C	Born, G V R, Dawes, G S and Oxygen lack and	
	autonomic nervous control of the foetal circu lation in the lamb	134, 149, 1956
MOTTRAM, R F	Cooper, K E, Edholm, O G and The partition of the blood flow between skin and muscle in the	
	human forearm	123, 33P, 1953
,,	Human muscle oxygen consumption	<b>123</b> , 34 <i>P</i> , 1953
"	The oxygen content of forearm venous blood during short periods of venous occlusion	125, 57P, 1954
**	Cooper, K E, Edholm, O G and The blood flow in skin and muscle of the human forearm	128, 258, 1955
**	The oxygen consumption of human skeletal muscle	128, 268, 1955
,,	The relationship between blood flow, arterio venous	120, 200, 1000
	oxygen difference, and oxygen uptake of human skeletal muscle	130, 42P, 195 <sub>0</sub>
,,	Cooper, K E, Ferres, Helen M and Changes in	
	hand blood flow evoked by rapid alteration of the radiant heat exchange between the front of	
	the body and the environment	<b>131</b> , 29 <i>P</i> , 1956
"	The influence of venous pressure on the oxygen content of deep forearm venous blood (T)	132, 3P, 1956
"	Moreira M F, —— and Werner, Attie Yvonne Effect of venous pressure on the oxygen content	
	of venous blood in the deep forearm veins	133, 255, 1956
MOTTRAM, R S	and Pugh, $G$ $L$ $C$ On the emptying of Douglas bags $(T)$	116, 3 <i>P</i> , 1951
MOUNT, L E	A simple method for recording blood viscosity continuously	<b>116,</b> 16 <i>P</i> , 1951
,,	The relation between work/cycle and frequency for rat lungs	125, 39P, 1954
,,	Daly, I de Burgh, Linzell, J L, — and Waites,	
	G M H Pulmonary vasomotor responses and acid base balance in perfused eviscerated dog	
	preparations	125, 40P, 1954
"	The ventilation flow resistance and compliance of rat lungs	<b>127,</b> 157, 1955
"	Variations in the components of the ventilation hindrance of cat lungs	131, 393, 1956
MOURANT, A E	Graff, Jean A E, Ikin Elizabeth W, Lehmann H,	
	—, Parkin, Dorothy M and Wickremasinghe, R L Haemoglobin E and blood groups in the	
	Veddas Aksoy M Bird, G W G, Lehmann, H, ——,	127, 41 P, 1954
"	Thein H and Wickremasinghe, R L Haemo globin E in Asia	130, 56 <i>P</i> , 1900
	•	100, 002,
Muller, O	and Shillingford, J. P. A manometer for differential and single pressure measurements	127, 2P, 1954
Mulligan, W	Jennings, F W, Lauder, I M and Isotopic methods in blood volume determinations on	
	domestic animals	121, 53P, 1953
Munro, A F	Potentiation and reversal of the adrenaline motor	
	response in the guinea pig ileum by autonomic drugs	118, 171, 1952
	<del>-</del>	

VUNEO, A. F	Effect of autonomic drugs on the responses of iso lated preparations from the guinea pig intestine to electrical stimulation  McDowall, R J S —— and Zayat, A F Sodium and cardiac muscle	120 41, 1953 130, 615, 1955
MUNEO, D S	, Renschler, H and Wilson, G M The use of physical methods and of sodium tetraphenyl boron for the separation of <sup>12</sup> K and <sup>24</sup> Na in biological fluids Kilpatricl, R, Miller, H ——, Renschler H and	128 68 <i>P</i> 1955
"	Wilson, G. M. A comparison of the distribution of 4 K and 4 Rb in the rabbit Kilpatrick R. Penschler, H. E., —— and Wilson, G. M. A comparison of the distribution of 4 K and 4 Rb in rabbit and man	128, 71 <i>P</i> , 1955 133, 194, 1956
MURALT, A. VON	see voy Muralt A	
MURRAY, J G	Erans, D H L and Orientation of regenerating non-medullated nerves  Lutton, B and Effects of the peripheral pathway	120, 52P 1953
,,	on the regeneration of nerve fibres and Thompson J W Regeneration by collateral sprouting in the partially denervated superior	126, 627, 1954.
	cerucal ganglion of the cat	131, 32P, 1956
Murray, Margaret M	Bond Audrey M and The effects of chrome fluorine intoxication on the kidneys  Bond, Audrey M, —— and Sterens, J. A. Direct titrimetric determination of fluorine in drinking	116, 18 <i>P</i> , 1951
	waters	116, 18 <i>P</i> , 1951
,	Bowie, Jane Y, Darlow, G and The effects of sodium fluoride on gastric secretion in cats (T)  Bowie Jane Y Darlow, G and The effect of	119 53 <i>P</i> , 1952
MURRAL, R W	sodium fluoride on gastric acid secretion	122, 203, 1953
,	The response of the lateralis organs of Xenopus laeris to thermal and electrical stimulation (T)  The response of the lateralis organs of Xenopus arms to electrical stimulation by direct current	125, 31 <i>P</i> , 1954 134, 408, 1956
Mussett, Marjorie V	Davies Beryl V A Gordon A H and A plasma calcium assay for parathyroid hormone using parathyroidectomized rats	125, 383, 1954
We are 3. D	Daries Beryl M A Gordon, A H and A monse urine phosphate assay for parathyroid hormone, with certain applications	130, 79, 1955
Ni est, N B	The uptake of radio iodine by the rabbit s thyroid measured in tiro Comparison of the effects of thiouracil, thyroxine	120, 278, 1953
	and cortisone on the thyroid function of rabbits  Hall, P F and Passage of exogenous thyroxina	120, 288, 1953
	and of iodide between mother and foetus in pregnant rabbits  Logothetopoulos J H and Concentration of radio iodide and <sup>13</sup> S labelled thiocyanate by the	133, 181, 1956
•	stomach of the hamster  Metabolism and distribution of endogroups the	133 213, 1956
n	Logothetopoulos J H and Concentration of all	, -,,
	iodide and 25 thiocvanate by the salivary glands	134, 189, 1956

Муд Ти, М	Draper, M H and Comparative studies of the resting and action potentials in mammalian cardiac tissues	
Myers, David K	Brooks, Vernon B and Cholmesterase content of normal and denervated skeletal muscle in the guinea pig	
Myrrscough, P R	and $Smyth, C\ N$ A syringe pressure transducer used to record intra uterine pressures	124, 10 <i>P</i> , 1954
Narao, H	Gellhorn, E, —— and Redgate, E S The influence of lesions in the anterior and posterior hypothalamus on tonic and phasic autonomic reactions	<b>131, 4</b> 02, 1956
NASHAT, F S	Brewin, E G, —— and Neil, E The influence of temperature on the relationship between blood CO <sub>2</sub> tension and plasma pH	<b>127</b> , 19 <i>P</i> , 1954
,,	and Neil, E The effect of hypothermia on baro	
,	ceptor and chemoceptor reflexes  Brewin, E G, Gould, R P, —— and Neil, E  Changes in structure and function of the liver as a result of hypothermia combined with occlusion	<b>127</b> , 59 <i>P</i> , 1950
**	of both venae cavae and Samueloff, M Method for crystallization of	128, 45P, 1955
,,	ovyhaemoglobin (T), Neil, E and Samueloff, M The effect of tempera	130, 39 <i>P</i> , 1955
,,	ture on the pH of solutions of oxyhaemoglobin equilibrated with CO <sub>2</sub> /air mixtures	130, 53 <i>P</i> , 1955
NASMYTH, P A	Factors influencing the effects of morphine on the ascorbic acid content of the rat s adrenal glands (T)	120, 22 <i>P</i> , 1953
,,	Hancock, J R and The effect of evaporation on temperature control of the isolated perfused heart	133, 29 <i>P</i> , 1956
"	The effects of various corticosteroids on the 180 lated mammalian heart	134, 10 <i>P</i> , 1956
NATHAN, P W	Referred sensation in spinal cord lesions (T)	123, 50P, 1953
NAYLOR, E J	and Stanworth, A The measurement of the Haid	123, 30 <i>P</i> , 1953
"	inger effect and Stanworth, A Retinal pigment and the Haid inger effect	124, 543, 1054
**	and Stanworth, A Measurement and clinical use of the Haidinger effect (T)	132, 53P, 1956
NAYLOR W	A simple reaction time meter (T)	128, 69P, 1955
NEALE, A V	Gardiner, J and Noradrensline in the foetus (T)	124, 63P, 1954
NEAME, K D	and Wiseman, G Transamination of glutamic acid during absorption by the small intestine of the dog	133, 39 <i>P</i> , 1956
NEGUS, V E	Pigment changes in skin and olfactory organ in Amphibia (T)	130 39 <i>P</i> , 1955
Neil, E	Landgren, S, —— and Zotterman, Y The effects on baroceptor activity of the local application of drugs to the carotid sinus wall	116, 27 <i>P</i> , 1951
***	Ead H W Green J H and A comparison of the effects of pulsatile and non pulsatile pressures on the carotid sinus (T)	117, 32 <i>P</i> , 1952

ш, Е	Duke, Helen N, Green, J H and Carotid chemo ceptor activity during inhalation of carbon	117, 63 <i>P</i> , 1952
"	monoxide  Chungcharoen, D, Daly, M de Burgh, — and  Schweitzer, A The effect of carotid occlusion  upon the intrasinusal pressure with special reference to vascular communications between	- ,
3)	the carotid and vertebral circulations in the dog, cat and rabbit  Ead H W Green, J H and A comparison of the	117, 56, 1952
	effects of pulsatile and non pulsatile blood flow through the carotid sinus on the reflexogenic activity of the sinus baroceptors in the cat	118, 509, 1952
"	Dule, Helen N, Green, J H and Carotid chemo ceptor impulse activity during inhalation of carbon monoxide mixtures	118, 520, 1952
79	Green, J H and Impulse activity in sinoacrtic nerves during haemorrhage (T)	119, 31 <i>P</i> , 1952
	Chemoceptors and heart rate (T)	121, 22P, 1953
**	Perfusion of the carotid bodies in the cat (T)	122, 68P, 1953
,,	Green, J H and The intrinsic musculature of the	
,,	larynx in the cat (T)	123, 13P, 1953
"	Brewin, E G and Acid base studies during hypothermia	126, 26 <i>P</i> , 1954
,,	Brewin, E G, Nashat, F S and The influence of temperature on the relationship between blood	
	CO, and plasma pH	127, 19P, 1954
**	Nashat, F S and The effect of hypotherms on baroceptor and chemoceptor reflexes	127, 59 <i>P</i> , 1955
,	Brewin, E. G., Gould, R. P., Nashat, F. S. and Changes in structure and function of the liver as a result of hypothermia combined with occlusion	
	of both venae cavae  Green, J H and The respiratory function of the	128, 45P, 1955
"	laryngeal muscles	129, 134, 1955
"	Brewin E G and Cardiovascular and respiratory reflex responses to stimulation of right cardiac	
**	vagal afferents  Nashat, F. S., —— and Samueloff, M. The effect of	130, 36 <i>P</i> , 1955
	temperature on the pH of solutions of oxyhaemo globin equilibrated with CO <sub>2</sub> /air mixtures	130, 53P, 1955
Neil, M W	A technique for maintaining normal amounts of	
**	potassium in the perfused rat liver (T)  A flame photometer with a photo multiplier tube	119, 7P, 1952
,	as a sensitive measuring device $(T)$ D Silva, $J$ L and The potassium, water and	119, 7P, 1952
	gly cogen contents of the perfused rat liver	124, 515, 1954
yerso,'C A	Electric field measurements in a two dimensional conductivity tank model of the human heart and	
,	A three dimensional conductivity tank model of	116 150
Vricov O 3	the human heart and thorax (T)	119, 34P, 1952
NELSON, G M	High titre cold agglutination (T)	118, 56P, 1952
λrιsο J F	Fantl, P and Coagulation in lymph	122, 33, 1052
NESS, A R	The synchronous discharge of the mechanoreceptors of rabbit incisor	120, 41 P, 1953

ΜΥΑ Τυ, Μ	Draper, M H and Comparative studies of the resting and action potentials in mammalian cardiac tissues	
Myers, David K	Brooks, Vernon B and Cholmesterase content of normal and denervated skeletal muscle in the guinea pig	
MYERSCOUGH, P R	and $Smyth, C\ N$ Asyringe pressure transducer used to record intra uterine pressures	<b>124</b> , 10 <i>P</i> , 1954
Narao, H	Gellliorn, E, —— and Redgate, E S The influence of lesions in the anterior and posterior hypothalamus on tonic and phasic autonomic reactions	131, 402, 1956
NASHAT, F S	Brewin, E G, —— and Netl, E The influence of temperature on the relationship between blood CO <sub>2</sub> tension and plasma pH	127, 19 <i>P</i> , 1954
**	and Neil, E The effect of hypothermia on baro	
,,	ceptor and chemoceptor reflexes  Brewin, E. G., Gould, R. P., —— and Neil, E.  Changes in structure and function of the liver as a result of hypothermia combined with occlusion	127, 59 <i>P</i> , 1900
	of both venae cavae	128, 45P, 1955
"	<ul> <li>and Samueloff, M Method for crystallization of oxyhaemoglobin (T)</li> <li>, Neil, E and Samueloff, M The effect of tempera</li> </ul>	130, 39P, 1955
"	ture on the pH of solutions of oxyhaemoglobin equilibrated with CO <sub>1</sub> /air mixtures	130, 53 <i>P</i> , 1955
Nasmyth, P A	Factors influencing the effects of morphine on the ascorbic acid content of the rat s adrenal glands (T)	<b>120</b> 22 <i>P</i> , 1953
"	Hancock J R and The effect of evaporation on temperature control of the isolated perfused heart	133, 29 <i>P</i> , 1956
"	The effects of various corticosteroids on the iso lated mammalian heart	134, 10 <i>P</i> , 1956
NATHAN, P W	Referred sensation in spinal cord lesions (T)	123, 50P, 1953
NAYLOR, E J	and Stanworth, A The measurement of the Haid inger effect	123, 30 <i>P</i> , 1953
"	and Stanworth, A Retinal pigment and the Haid inger effect	<b>124</b> 543, 1954
"	and Stanworth A Measurement and clinical use of the Haidinger effect (T)	132, 53 <i>P</i> , 1956
NAYLOR, W	A simple reaction time meter (T)	128, 69P, 1955
NEALE, A V	Gardiner, J and Noradrenaline in the foetus (T)	124, 63P, 1954
NEAME K D	and Wiseman, G Transamination of glutamic acid during absorption by the small intestine of the dog	133, 39 <i>P</i> , 1956
Negus, V E	Pigment changes in skin and olfactory organ in Amphibia (T)	130 39 <i>P</i> , 1955
Neil, E	Landgren S —— and Zotterman, I The effects on baroceptor activity of the local application of drugs to the carotid sinus wall	116, 27 <i>P</i> , 1951
"	Ead H W Green J H and A comparison of the effects of pulsatile and non pulsatile pressures on the carotid sinus (T)	117, 32 <i>P</i> , 1952

# INDEX OF AUTHORS

NIGHTINGALE A	Joseph J and Electromy ography of muscles of	123, 53 <i>P</i> , 1954
,	posture thigh muscles in males  Joseph, J —— and Williams, P L A detailed study of the electric potentials recorded over some postural muscles while relaxed and standing  Joseph, J and Electromy ography of muscles of posture leg and thigh muscles in women, in cluding the effects of high heels	126, 81, 1954 127 617, 1955 132, 465, 1956
NISBET, A. MYFANW	Y Sensory nerve endings in the bovine muzzle (planum nasolabiale)	130, 3 <i>P</i> , 1955
Nisbet, W	Beakley, W R Bligh J and A pneumotacho graph for cattle	121, 40 <i>P</i> , 1953
Nissin, J. A.	The effect of different iron preparations on the cells of the reticulo-endothelial system The entry of iron into liver parenchyma cells following the injection of different iron pre	117, 32P 1952
	parations and the different lesions produced with toxic doses  The anticoagulant effect of different iron prepara	117 66P, 1952
	tions The capillary damaging effect of different iron	118, 7P, 1952
	preparations Histological changes in the liver in experimental	118, 33P, 1952
	siderosis	118 56P, 1952
	Plasma fron levels after the intravenous administra- tion of different fron preparations Urinary fron excretion and diffusibility of different	118 63P, 1952
,	iron preparations  Iron storage in the adrenal cortex and medulla and cortical cell damage following the administration	118, 64 <i>P</i> , 1952
	of different iron preparations  The mechanisms of acute toxicity of different iron	119 1P, 1952
	preparations	119 12P, 1952
,	Excretion of iron in experimental siderosis  Evidence of a spermatocytotrophic hormone pro duced by the interstitual cells of the testis	119, 40P, 1952
3* 75 4		131 27P, 1956
ZEO D 7	The occurrence of mositol in the foetal blood and fluids of several mammalian species  4 lexander D Pauline Andrews, R D Huggett  A St G —— and Widdas, W F Placental	117, 70 <i>P</i> , 1952
	production of glucose and fructose in the sheep The presence of mositol in the cerebrospinal	118 58P, 1952
	Alexander D Pauline Huggett A St G and	119 18P 1952
	Widdas W F Perfusion of the placenta in the sheep through the umbilical arteries  Alexander D Pauline and In vitro studies on the permeability of the amniotic membrane of the	120, 22 <i>P</i> , 1953
,	sheep to fructose, glucose and most of the The free most of content of milk.  Campling J D and The most of content of foetal blood and foetal fluids	120, 26P 1953
	Cerebrospinal fluid mositol and its rise in post mortem specimens	126 71, 1954
10	- A	129 272, 1955

Ness, A R	Measuring the continuous eruption of the rabbit mandibular incisor	<b>124,</b> 13 <i>P</i> , 1954
"	The mechanoreceptors of the rabbit mandibular incisor	126, 475, 1954
,,	The eruption rate of the rabbit mandibular incisors	128, 74P 1900
Newey, H	Gibson, Q H, ——, Smyth, D H and Whaler, B C Synthesis of L alanine and L leucine from their unnatural enantiomorphs The in vitro intestinal absorption of glucose (T)	125, 65 <i>P</i> , 1904 128, 84 <i>P</i> , 1950
"	, Smyth, D H and Whaler, B C The absorption of glucose by the <i>in vitro</i> intestinal preparation	<b>129,</b> 1, 1955
Newling, P S B	Macpherson, R K and Salt concentration and rate of evaporation of sweat	123, 74 <i>P</i> , 1954
"	Ellis, F P Ferres, Helen M, Lind, A R and The upper tolerable levels of warmth for acclimatized European men working in the tropics Glaser, E M and Thermal balance in man	125, 55 <i>P</i> , 1954 129, 72 <i>P</i> , 1955
NEWMAN, P P	Potential changes in the parietal cortex on stimu	•
"	lation of the splanchnic nerve Changes in arterial blood pressure following stimu	116, 8P, 1951
,,	lation of the gall bladder	119, 46P, 1952
"	Blood pressure changes in the cat following distension of abdominal viscera (T) and Wolstencroft, J H Influence of the orbital	122, 68P, 1953
"	cortex on the changes in blood pressure produced by heating the carotid blood	132, 48 <i>P</i> , 1956
Nicholls, J G	Buller, A J, —— and Ström G Spontaneous fluctuations of excitability in the muscle spindle of the frog	<b>122,</b> 409, 1953
,,	The electrical properties of denervated skeletal muscle	123, 2P, 1953
**	Harris, E J and An effect of denervation on the rate of entry of potassium into frog muscle	123, 3 <i>P</i> , 1953
,,	The electrical properties of denervated skeletal muscle	131, 1, 1956
,,	Harris, E J and The effect of denervation on the rate of entry of potassium into frog muscle	131, 473, 1956
NICOL, T	and Snell, R S The appearance of lipid in the vaginal smears of the guinea pig (T)	123, 2 <i>P</i> , 1953
NIEDERGERKE, R	Huxley, A F and Measurement of muscle striations in stretch and contraction	124 46P, 1954
,,	Local muscular shortening by intracellularly applied calcium	128, 12 <i>P</i> , 1955
,,	The 'staircase phenomenon in the frog s ventricle and the action of calcium	128, 55P, 1955
**	KCl contractures of the frogs heart and their modification by Ca	132, 45 <i>P</i> , 1956
"	The 'staircase' phenomenon and the action of calcium on the heart	<b>134</b> , 569, 1956
"	The potassium chloride contracture of the heart and its modification by calcium	134 584, 1956
NIGHTINGALE, A	Joseph, J and Electromy ographic studies of the leg muscles in posture (T)	117, 9 <i>P</i> , 1952
"	Joseph J and Electromy ography of muscles of posture leg muscles in males	<b>117,</b> 484, 1952

	INDUA OF HOTHORS	
O CONOR W J	The normal interphase in the polyuma which follows section of the supraoptico hypophyseal tracts (T)	116, 28 <i>P</i> , 1951
,	The indirect determination of systolic and diastolic blood pressures in conscious dogs	122, 68 <i>P</i> , 1953
1	The excretion by the dog of administered sodium chloride (T) The effect of occlusion of both carotid arteries on	127, 42P, 1954
**	the renal excretion of sodium chloride (T)	128, 18P, 1955
OGSTON, A. G	and Stanier J E Elastoviscosity of synovial fluid (T)	118, 24 <i>P</i> , 1952
33	Removal of acetylcholine from a limited region by diffusion (T) and Stanier, J E The physiological function of	118, 50 <i>P</i> , 1952
	hvaluronic acid in synovial fluid viscous, elastic and lubricant properties and Stanier J E Some effects of hvaluronidase on the hyaluronic acid of ox synovial fluid, and their bearing on the investigation of pathological	119, 244, 1953
	fluids Removal of acetylcholine from a limited volume	119, 253, 1953
•	by diffusion	128, 222, 1955
O'HEA, T P	Ganglion cells in the adrenal medulia	118, 1P, 1952
OLESKY S	Duncan, P. R., Etans, D. G. Harper, A. A., Howat, H. T.—— Scott J. E. and Varley, H. The use of the cholecystokinetic agent in preparations of pancreozymin to study gall bladder function in man.	<b>121</b> , 19 <i>P</i> , 1953
Oppé T E	Cross, K W and The respirators rate and solume	11/ 100 1
,	in the premature infant  Cross K W and The effect of inhalation of high and low concentrations of oxygen on the respira tion of the premature infant	116, 168 1952 117, 38, 1952
	Cross K W Hooper J M D and The effect of carbon droxide on the respiration of the full term and premature infant	119, 11 <i>P</i> , 1952
,	Cross, K W Hooper J M D and The effect of mhalation of carbon dioxide in air on the respiration of the full term and premature infant	122, 264, 1953
O RIORDAN, J L	H Cormacl R S, Cunningham, D J C and A respiration apparatus (T)	129, 3 <i>P</i> , 1955
•	Cunningham D J C and Respiratory effects of raising the body temperature in man	131, 14P 1956
OSHIMA, K.	Kobayash: Y —— and Tasal: I Analysis of afferent and efferent systems in the muscle nerve of the toad and cat	
ÖSILUND E	Augustineson, K B, Fänge R Johnels A and Histological physiological and biochemical studies on the heart of two evelostomes hagfish (Myxine) and lamprev (Lampetra)	
Оттамач Ј Н	Bulbrook, R D and Effects of pituitary growth hormone on glucose utilization by murals	100
	formation in rat liver	
,,	Kerly Margaret and The effect of diet on the meta bolism of glucose and of acetate by rat diaphragm muscle	123, 516 1954
		123, 534, 1954

Nixon, D A	Alexander, D Pauline, Andrews, R D, Huggett, A St G, —— and Widdas, W F The placental transfer of sugars in the sheep studies with	
,,	radioactive sugar  Alexander, D Pauline, Huggett, A St G, —— and  Widdas, W F The placental transfer of sugars in the sheep the influence of concentration gradient upon the rates of hexose formation as shown in	<b>129, 3</b> 52, 19 <sub>00</sub>
"	umbilical perfusion of the placenta  Alexander, D Pauline, —, Widdas, W F and  Wohlzogen, F X Changes in composition of the	129, 367, 1950
,,	foetal fluids of the sheep during gestation  Alexander, D Pauline, —, Widdas, W F and Wohlzogen, F X Urine production in the foetal	129, 66 P, 1955
"	sheep The relationship of the cerebrospinal fluid and aqueous humour inositol to the plasma inositol in the sheep	130, 13 <i>P</i> , 1955 131, 11 <i>P</i> , 1956
,,	Alexander, D Pauline, Huggett, A St G, —— and Widdas, W F The collection of foetal urine in the sheep (T)	132, 3 <i>P</i> , 1956
"	The microbiological detection and determination of meso-inositol	132, 4 <i>P</i> , 1956
Noble, R L	and Taylor, N B G Antidiuretic substances in human urine after haemorrhage, fainting, de hydration and acceleration	<b>122,</b> 220, 1953
Noltie, H R	The effect on the Pack Fitness Index of acute exposure to a hot humid atmosphere	122, 71 <i>P</i> , 1953
Norrie, G O	Causley, D J, —, Roberts, F and Young, J Z Counting of microscopic particles (T)	<b>120</b> , 32 <i>P</i> , 1953
Nour Eldin, F	and Wilkinson, J F The separation of human and bovine plasma thromboplastin with ether and a study of its properties	132, 164, 1956
Nunn, Joan	Dicker, S E and Some factors influencing the amount of vasopressor and oxytocic activities of the posterior pituitary gland of normal and adrenal ectomized rate (T)	124, 69 <i>P</i> , 1954
Nuriok, A	Continuous recording of biliary pressures post operatively in man (T)	119, 31 <i>P</i> , 1952
Nüsser, E	Barer Gwenda and Reflex changes in tidal air	118, 40P, 1952
Nutt, Marjorie E	Jackson, D. Mary and The effect of carbon dioxide on relative red cell volume	<b>123</b> , 367, 1954
"	Jackson, D Mary and Packed cell volume determination as an alternative to red cell counts in normal subjects	134, 16 <i>P</i> , 1956
O'CONNOR, J M	Sterols, temperature and metabolism (T) Application of the Vierordt method of determining the rate of oxygen consumption to the tail of the	118 58P, 1952
"	rat (T) The influence of fatty acids and supraronal cortex	125, 51P, 1954
	on the relation between temperature and oxygen consumption (T)  The influence of methyl cholanthrene on the oxygen	125 62P, 1954
,	consumption of rat skin (T)	125 62P, 1954

	INDEA OF METHORS	
Pardor, A. Uesula	and Wentherall M Antiduretic activity of	119, 7P, 1952
,	extracts of the pituitary glands of lead poisoned	119, 16 <i>P</i> , 1952
"	and Weatherall M The intracellular localization of oxytocic and vasopressor substances in the pituitary glands of rats	127, 201, 1955
Pare, W W	Trophoblastic tissue within the lungs during preg	118, 40P, 1952
Parkers, A. S	Bruce, H M —— and Perry W L M The assav of ACTH on the thymus of the nestling rat (T)	117, 2P, 1952
22	, Short, D J and Sutton C D The care of experimental animals (T)	117, 2P, 1952
79	and Smith, Audrey U Survival of isolated guinea pig uterus after freezing to -79° C in glycerol Ringer (T) and Smith, Audrey U Development of functional	123, 67 <i>P</i> , 1954
77	grafts from frozen and thawed adrenal cortex	124, 61 P 1954
Parkes, JL W	Hall, R. A and The effects of drugs upon neuro muscular transmission in the spinal guinea pig (T)	117, 2 <i>P</i> , 1952
•	Hall, P. A and The effect of drugs upon neuro muscular transmission in the guinea pig	122, 274, 1953
PARKIN, DOROTHY	M. Graff, Jean A. E., Ikin, Elizabeth W., Lehmann H., Mourant, A. E., —— and Wickremasinghe P. L. Haemoglobin E. and blood groups in the Veddas	127, 41 <i>P</i> , 1954
PARRATT J R	and West, G B Tissue histamine and 5 hydroxy- tryptamine	132, 40P, 1956
	and West G B Influence of age on tissue histamine and 5 hydroxytryptamine and West G B The location and possible function	133, 71 <i>P</i> , 1956
,	of tissue 5 hydroxytryptamme in the rat	134 11 <i>P</i> , 1956
PAREY, H. B	, Tansley, Katharine and Thomson, L C The electroretimogram of the dog Induction of toxaemia of pregnancy in sheep and Taylor, W H Renal clearances of creatinine	120, 28, 1953 126, 40 <i>P</i> 1954
	and p-amino hippurate in normal pregnancy and toxaemia of pregnancy in the sheep and Taylor W H Renal function in sheep during	127, 54 <i>P</i> , 1955
,	normal and toxaemic pregnancies	131, 383, 1956
PARRY H. V	Lloyd B B and The reduction of L-ascorbone by human ervihrocytes	126, 54 <i>P</i> , 1954
PARSONS B J	Atkinson, R. M. and A technique for the study of absorption in the perfused intestine (T) and Smyth D. H. The intestinal absorption of	128 69 P 10==
Parsons, D S	radioactive glucose  Fisher R B and Glucose movements across the	134, 7P 1056
"	wall of the rat small intestine  Fisher R B and Galactose absorption from the	110 010 1000
PARTHASARATHY	D and Philipson A T The movement of rotarrange	119 224 1953
Parington, M	epithelium of sheep	121 452 1050
·	violet light	119, 17 <i>P</i> , 1952

	· · · · · · · · · · · · · · · · · · ·	
OWEN, E C	Edwards, D C and The estimation of lysine by Gales bacterial specific decarboxylase method	
"	and comparison with paper chromatography (T)  Hofmann, T and The separation of proteins by electrophoresis on filter paper and its application	
"	to bovine and goat blood colostrum and milk (T)  Manson, W and Chromatographic separation of the paradimethylaminophenyl ureides of lower	
<b>33</b>	fatty acids (T)  Chanda, R, Clapham, Helen M and The effect of carotene deprivation on the composition of the blood of the cow	121, 41 P, 1953 121, 42 P, 1953
Owen, S G	Dewar, H A and Automatic syringe withdrawal device for constant rate arterial and cerebral venous blood sampling during the determination of cerebral blood flow by the nitrous oxide method (T)	121, 13 <i>P</i> , 1953
Paasonen, M K	and Vogt, Marthe The effect of drugs on the amounts of substance P and 5 hydroxytryptamine in mammalian brain	131, 617, 1956
Padsha, S M	Hutter, O F and Effect of mitrate on the electro tonic potential of muscle (T)	132, 32 <i>P</i> , 1956
Paintal, A S	Conduction velocity of single respiratory and cardiovascular afferent fibres in the cervical vagus	117, 40 <i>P</i> , 1952
"	A method of determining the conduction velocities of single afterent units (T)	118, 5 <i>P</i> , 1952 119, 10 <i>P</i> , 1952
"	Another atrial receptor	120, 596, 1953
"	A study of right and left atrial receptors  The response of pulmonary and cardiovascular vagal receptors to certain drugs	121, 182, 1953
,,	The conduction velocities of respiratory and cardiovascular afferent fibres in the vagus nerve	121, 341, 1953
"	A method of locating the receptors of visceral afferent fibres  A study of gastric stretch receptors Their role in	<b>124,</b> 166 1954
"	the peripheral mechanism of satistion of hunger and thirst  The response of gastric stretch receptors and	126, 255, 1954
	certain other abdominal and thoracic vagal receptors to some drugs	126, 271, 1954
PALMER, E	Causey G and The mixing of the myelin and avo plasm and their subsequent separation following the crushing of mammalian nerves	117, 20 <i>P</i> , 1952
PALMER, J F	A sweep expander for use with the Cossor 1049 oscilloscope	129, 5 <i>P</i> , 1955 129, 38 <i>P</i> 1955
"	A time marker for use with sweep expanders  Lippold O C J and The effects of fatigue on the  electrical activity of human muscle (T)	132, 21 P, 1956 132, 21 P, 1956
"	A simple general purpose stimulator and Read G Electronic gate for use with Dekatron counter (T)	132, 217, 1956 132, 33 <i>P</i> , 1956
PALMER, K N V	A case of subacute nephritis treated with ion exchange resins (T)	119, 34 <i>P</i> , 1052

PATON, W D M.	and Thompson, J. W. Depression of nervous conduction by sympathomimetic amines (T)	124, 9P, 1954
"	Eldndge, Eleanor and The release of histamine from cat's isolated perfused skin by amino acids Douglas, W W and The mechanisms of motor end	124, 27 <i>P</i> , 1954
,	plate depolarization due to a cholinesterase inhibiting drug	124, 325, 1954
,,	The response of the guinea pig ileum to electrical stimulation by coaxial electrodes	127, 40P, 1954
33	A method of stimulating the guinea pig ileum using co axial electrodes (T) and Vane J R The excitation of nervous tissue in	129, 7P, 1955
,,	the isolated stomach in vitro by electrical stimu lation, acetylcholme and histamine (T)	133, 77 <i>P</i> , 1956
PATTERSON G C	and Shepherd, J T Vasoconstruction following venous congestion in normal, sympathectomized,	177 707 1074
	and denervated forearms	123, 76 <i>P</i> , 1954
**	Greenfield, A D M and Response of the forearm blood vessels to very high transmural pressures Greenfield, A D M and The effect of slight venous	123, 76P, 1954
**	distension on the apparent rate of blood inflow to the forearm	124, 45 <i>P</i> , 1954
**	Greenfield A D M, Kerslake, D McK and Prolonged dilatation of the forearm blood vessels	22, 202, 2001
	after a large increase in transmural pressure and Shepherd, J T The blood flow in the human	125, 40P, 1954
***	forearm following venous congestion	125, 501, 1954
**	Greenfield, A D M and Reactions of the blood vessels of the human forearm to increases in	
	transmural pressure	125, 508, 1954
,	Greenfield A D M and The effect of small degrees of venous distension on the apparent rate of blood	
	inflow to the forearm	125, 525, 1954
"	Duff, F, and Shepherd, J T A quantitative	120, 020, 1804
	study of the response to adenosine triphosphate	
	of the blood vessels of the human hand and fore	
	arm and Whelan, $R$ $F$ The measurement of blood flow	<b>125</b> , 581, 1954
,,	during reactive hyperaemia in man	127 1272 zona
,,	Intravascular pressure and reactive hyperaemia	127, 13 <i>P</i> , 1954 127, 14 <i>P</i> , 1954
"	Greenfield, A D M and The capacity of the blood	~~, 1±1 , 1004
	vessels in the human forearm	129, 24 P, 1955
**	Greenfield A D M and On the capacity and dis- tensibility of the blood vessels of the human forearm	
,,	Coles, D R, Kidd B S L and The response of the blood vessels of the human calf to increases in	131, 290, 1956
	transmural pressure	132 4672 1050
**	Coles D R, Kidd, B S L and The reactions of	132, 46P, 1956
	in transmural pressure	134, 665, 1956
PAUL W M	Chinard, F P Danesino, V, Huggett, A St G,	
•	augus across the monkey hiscanto	400
,	Danesino, V, Hartmann, WL, Huggett, A StG and The passage of sugars across the human placenta	
	(T)	
		132, 12 <i>P</i> , 1956

Pascoe, J E	Brown, G L, McLennan, H and Failure of ganglionic transmission after post-ganglionic	448 000 000
"	ners e section  Brown, G L, McLennan, H and Acetylcholine	117, 28 <i>P</i> , 1952
19	metabolism of axotomized sympathetic ganglia Brown, G L and Conduction through the inferior	118, 60P, 1952
,,	mesenteric ganglion of the rabbit	118, 113, 1952
"	McLennan, H and Mesenteric preganglionic fibres (T)	123, 13 <i>P</i> , 1953
"	Brown, G L and The effect of degenerative section of ganglionic axons on transmission through the ganglion	123, 565, 1954
,,	Potential changes in sympathetic ganglia (T)	124, 15 <i>P</i> , 1954
,,	McLennan H and The origin of certain non medullated nerve fibres which form synapses in the inferior mesenteric ganglion of the rabbit	<b>124</b> , 145, 1954
**	A technique for the introduction of intracellular electrodes	128, 26 <i>P</i> , 1955
**	Changes in the polarization of the superior cervical ganglion produced by drugs	128, 75P, 1955
**	The effects of acetylcholine and other drugs on the	132, 242, 1958
,,	isolated superior cervical ganglion.  The survival of the rat's superior cervical ganglion.	132, 24 <i>P</i> , 1956
D -	at -79° C (T)	132, 247, 1000
Pask E A	Austin, G M and Effect of ether inhalation upon spinal cord and root action potentials Molyneux, L and Another clinical instrument for	118, 405, 1952
,,	the recording of systolic and diastolic pressure continuously (T)	121, 13 <i>P</i> , 1953
,,	Molyneux, L and A clinical pneumotachograph and volume integrator using mainly standard equipment (T)	121, 13 <i>P</i> , 1953
Passmore, R	Mahadeva, K, — and Woolf, B Individual	
,,	variations in the metabolic cost of standardized exercises the effects of food, age, sex and race Durnin, J V G, Garry, R C, —— and Warnock,	121, 225, 1953
,,	G M The expenditure of energy and the con	
	sumption of food by miners and by clerks, East Fife, Scotland	122, 54P, 1953
Paterson, A S	Gualtierotti, T and Electrical stimulation of the unexposed cerebral cortex	<b>125,</b> 278, 1954
PATERSON, G	A method of studying the action of cardiovascular drugs by simultaneous records of the blood pressure and of the sciatic nerve gastrochemius muscle preparation in the rat (T)	123, 2 <i>P</i> , 1953
Paton, A	Ginsburg, Jean and Effects in man of insulin hypoglycaemia after adrenalectomy	133, 59 <i>P</i> , 1956
PATON, W D M	Douglas, W W and The hypothermic action of ACTH (T)	117 2P, 1952
,,	and Perry W L M The relationship between depolarization and block in the cat's superior	
	cervical ganglion	119, 43, 1953
,,	and Thompson, J W The muscles retracting the cat's nictitating membrane (T)	120, 55P, 1953 123, 58P, 1954
,,	Histamine liberation and lymphagogue action	140,001, 1001

PATON, W D M	and Thompson, J W Depression of nervous conduction by sympathomimetic amines (T)	124, 9 <i>P</i> , 1954
***	Eldridge, Eleanor and The release of histamine from cat's isolated perfused skin by amino acids Douglas, W. W. and The mechanisms of motor end	124, 27 <i>P</i> , 1954
	plate depolarization due to a cholinesterase inhibiting drug The response of the guinea pig ileum to electrical	124, 325, 1954
,	stimulation by coaxial electrodes	127, 40 <i>P</i> , 1954
"	A method of stimulating the guinea pig ileum using co axial electrodes (T) and Vane, J R The excitation of nervous tissue in	129, 7P, 1955
,	the isolated stomach in vitro by electrical stimu lation acetylcholine and histamine (T)	133, 77 <i>P</i> , 1956
Patterson G C	and Shepherd, J T Vasoconstriction following venous congestion in normal, sympathectomized,	122 78 D 105 i
,,	and denormated forearms  Greenfield, A D M and Response of the forearm	123, 76 <i>P</i> , 1954
39	blood vessels to very high transmural pressures $Greenfield$ , $A$ $D$ $M$ and $The$ effect of slight venous	123, 76 <i>P</i> , 1954
17	distension on the apparent rate of blood inflow to the forearm Greenfield, A. D. M., Kerslake, D. McK. and Pro- longed dilatation of the forearm blood vessels	124, 45P, 1954
,	after a large increase in transmural pressure and Shepherd, J. T. The blood flow in the human	125, 40 <i>P</i> , 1954
,	forearm following venous congestion  Greenfield, A D M and Reactions of the blood	125, 501, 1954
	vessels of the human forearm to increases in transmural pressure Greenfield, A. D. M. and The effect of small degrees	125, 508, 1954
"	of venous distension on the apparent rate of blood inflow to the forearm  Duff, F, —— and Shepherd, J T A quantitative study of the response to adenosine triphosphate of the blood vessels of the human hand and fore	125, 525, 1954
_	arm and Whelan, R F The measurement of blood flow	125, 581, 1954
1)	during reactive hyperaemia in man	127, 13P, 1954
) ))	Intravascular pressure and reactive hyperaemia Greenfield, A D M and The capacity of the blood	127, 14P, 1954
,	vessels in the human forearm  Greenfield, A D M and On the capacity and distensibility of the blood vessels of the human	129, 24P, 1955
,,	forearm  Coles D R, Kidd, B S L and The response of the blood vessels of the human calf to increases in	131, 290, 1956
"	transmural pressure  Coles D R, Kidd, B S L and The reactions of the blood vessels of the human calf to increases in transmural pressure	132, 46 <i>P</i> , 1956
PAUL, W M	Chinard, F. P., Danesino, V., Huggett A. St. a.	134, 665, 1956
"	and Reynolds, S R M The passage of sugars across the monkey placenta  Danesino, V, Hartmann, W L, Huggett, A St G and The passage of sugars across the human placenta	127 8P 1954
	(T)	132 12P, 1956

Paul, W M	Chinard, F. P., Danesino, V., Hartmann, W. L., Huggett, A. St. G.,—— and Reynolds, S. R. M. The transmission of hexoses across the placenta in the human and the rhesus monkey (Macaca mulatta)	
Pawan, G L S	Chalmers, T M, Lewis, A A G and The effect of acute reduction of the glomerular filtration rate on sodium excretion in man	<b>117</b> , 218, 1952
,,	Kelwick, A and Protein metabolism in obese patients on restricted diets (T)	119, 34 <i>P</i> , 1952
17	Chalmers, T M and Potassium depletion due to purgatives (T)	<b>130,</b> 36 <i>P</i> 1955
PEARCE, J F	Bates, D V and The pulmonary diffusing capacity, a comparison of methods of measurement and a study of the effect of body position	<b>132,</b> 232, 1956
Pearce, J W	Baxter, I G, Cunningham, D J C and Comparison of cardiac output determinations in the	110 000 1059
"	cat by direct Fick and flowmeter methods  Henry, J P and The possible role of cardiac atrial  stretch receptors in the induction of changes in	118, 299 1952
D A G E	urine flow	<b>131</b> , 572, 1956
PEARSE, A G E	Howe, A and A histochemical investigation of neurosecretory substance in the rat	<b>133</b> , 41 P, 1956
PECKETT, B W	Howell, J B L and A method of measuring the compliance of the isolated lungs and its application to anaesthetized subjects (T)	130, 34 <i>P</i> , 1955
"	Howell, J B L and Compliance studies in anaesthetized paralysed human subjects	133, 22P, 1956
Pelc, S R	Fell, H B, Mellanby, the late E and Influence of excess vitamin A on the sulphate metabolism of bone rudiments grown in vitro	<b>134,</b> 179, 1956
Pels, H	Armin, J, Grant, R. T, —— and Reeve, E. B. The plasma, cell and blood volumes of albino rabbits as estimated by the dye (T. 1824) and <sup>32</sup> P marked cell methods	116, 59, 1952
Pepper, Margot C	Cranston, W I, — and Ross, D N Blood reaction during hypothermia	125, 20 <i>P</i> , 1954
"	Cranston, W I, —— and Ross D N Carbon dioxide and control of respiration during hypothermia	<b>127,</b> 380, 1955
PERKINS, E S	Greaves, D P and Methods of measuring intra ocular pressure (T)	116, 52P, 1952
,,	Gloster, J and Carbonic anhydrase in the lens and in the ciliary body and iris of albino rabbits	<b>130</b> , 665, 1955
,	Greaves, D P and The 7th cranial nerve and intra ocular pressure	134, 393, 1956
Perkins, J	Stimulators with R F isolation unit (T)	128, 3P, 1955
PERRY, W L M	Feldberg, W, Gray, J A B and A method of investigating the effects of close arterial injec	
	tions on spinal cord activity	117, 1 <i>P</i> , 1952
**	and Talesnik J The offect of ganglionic blocking drugs on the cat's ciliary ganglion (T)  Bruce H M, Parkes A S and The assay of ACTH	117, 2P, 1952
,	on the thymus of the nestling rat (T)	117, 2P, 1952

	Andrews N and Robertson, P A The	
PEREY, W L M	menglionic action of natural muscarine (T)	119, 53P, 1952
•	Paton W D M and The relationship between de polarization and block in the cat's superior	
	cervical ganglion	119, 43 1953
,	Feldberg, W Gray J A B and Effects of close	
	arrenal injections of acetylcholine on the activity	119, 428, 1953
	of the cervical spinal cord of the cat Acetylcholme release in the cat's superior cervical	117, 420, 1200
77	ganglion	119, 439, 1953
,	and Talemil, J The role of acetylcholme in synaptic	
	transmission at parasympathetic ganglia	119, 455, 1953
77	and Remert H H R The role of potassium in the ganglion blocking action of the methonium	
	compounds (T)	123, 69P, 1954
,	and Wilson, C W M A method for assessing con	
	currently the activity of drugs on both the	
	sympathetic and the parasympathetic ganglia supplying the heart (T)	123, 69 <i>P</i> , 1954.
	and Zaimis Eleanor J The effect of decamethonium	120, 001 , 1004.
P+	on potassium loss from normal and denervated	
	muscles (T)	123, 69P, 1954
,	and Reinert, H The effects of preganglionic denerva- tion on the reactions of ganglion cells	126, 101, 1954
,,	and de Rossi P Modifications of the Cossor camera	120, 101, 1304
,	to permit the taking and numbering of single	
	frames	128, 2P 1955
71	and Remert H Perfusion of the cat's superior cervical ganglion under anaerobic conditions (T)	128, 3 <i>P</i> , 1955
	Malcolm, J L and A method for recording intra	120, 01 , 1555
	cellular potentials from a sympathetic ganglion	128, 29P, 1955
29	Brocklehurst, W E, Humphrey J H and The role of histamine in cutaneous antigen antibody re	
	actions in the rat	129, 205, 1955
77	and Remert H On the metabolism of normal and	,, 1000
	denervated sympathetic ganglion cells	130, 158, 1955
PETERS R A.	and Walefield R W Fluorocitrate-induced con	
	vulsions in the pigeon (Film) (T)	120, 45P, 1953
,	Hastings A B — and Walelin, R W A study of the influence of the inorganic ion environment	
	on the convulsions induced in pigeons by fluoro	
	citrate	120, 50P, 1953
17	and Waldin, R W Pyravate oxidase system in brain tissue	110 401 4
PETERSON J M.		119, 421 1953
222230 ( 0 242	Barry W L, — and Sims A L A sensitive single-cell absorptiometer unaffected by voltage	
	changes in current supply (T)	119, 21 <i>P</i> , 1952
	The glucose space of the body (T)	119, 28P, 1952
PETERSON L. H.	Lessen M and On the principle of superposition	, , , , , , , , , , , ,
<b>.</b>	in naemodynamics	130 18P, 1955
Praltz C R	Hood J D and Observations upon the so-called	
	habituation phenomenon in rotatory and calone nystagmus	
**	Hood J D and Observations man the officers of	123, 33P, 1953
	repeated simulation upon rotational and calone	
	nvstagmus	124, 130, 1954.
		,

Prichard, Marjorie M. L	Ardran, G M, Dawes, G S, Reynolds, S R M and Wyatt, D G The effect of ventila	
	tion of the foetal lungs upon the pulmonary circulation  Daniel P M, —— and Ward McQuaid, J N An	118, 12, 1952
"	angiographic study of the effect of regin upon the renal circulation	124, 106, 1954
**	and Daniel, P M Necrosis in the anterior lobe of the pituitary produced by arresting the blood flow in the hypophysial portal vessels in the	
	stalk	133, 4P, 1956
Pedde, F J	and Westlake, E K The respiratory response to carbon dioxide in emphysems (T)	119, 33 <i>P</i> , 1952
Printrose, J A. E	Campbell, F W and The state of accommodation of the human eye in darkness (T)	116, 52P, 1952
PRINCLE, J W S	The mechanism of the myogenic rhythm of certain insect striated muscles	<b>124</b> 269, 1954
Provins, K A.	The role of receptors in muscle and tendon in con trolling the application of finger pressure in man	128, 55 <i>P</i> , 1955
Pryn, J	Dire, C., Hawes, L. 4 and Methods of artificial	
	respiration (Holger, Nielsen, Schafer, and Eve- methods) (T)	119, 31 <i>P</i> , 1952
Pugh, L. G C	Mottram, R S and On the emptying of Douglas bags (T)	116, 3 <i>P</i> , 1951
,,	The effect of supplementary oxygen on acclima tized men at 20,000 ft (T) Technique employed for measuring respiratory	120, 18 <i>P</i> , 1953
,	exchanges on Mount Everest, 1953 Haemoglobin levels on the British Himalayan	123, 25P, 1953
	Expeditions to Cho Ovu in 1952 and Everest in 1953	126, 38P, 1954
Pugh P D S	and Scarssbrick, R Acetate uptake by the foetal sheep	129, 67 <i>P</i> , 1955
Purvis, C	Davson, H and An apparatus for controlled in	, ,
	pection over long periods of time  Davson, H and Cryoscopic apparatus suitable for	117, 18 P, 1952
	studies on aqueous humour and cerebro spinal fluid	124, 12 <i>P</i> , 1954
Quesne, L P Le	· • • · · · · · · · · · · · · · · · · ·	
QUILLIAM, J P	A method for the study of drugs upon frog muscle fibres innervated by large or small diameter motor nerves using the isolated sciatic nerve ilio	
O	fibularis muscle preparation (T)	123, 2P, 1953
QUILLIAM, T A.	and Shawe G D H Two somatic nerves containing no non my elinated fibres and Sato, M Some neurohistological observa	117 20P, 1952
	tions on Facinian corpuscles (T)	124, 2P, 1954
_	and Sate, M The distribution of myelin on nerve fibres from Pacininian corpuscles	129, 167, 1955
RADFORD E P	Ferris, B G, McIlroy M B, Mead J, — and Whittenberger, J L The principles of respiratory	
	mechanics	131, 1 <i>P</i> , 1956

PIRENNE, M H	Denton, E J and The visual sensitivity of the toach	
,,	Xenopus laevis  Crawford, B H and Steep frequency of seeing	
"	curves  Marriott, F H C and The absolute light-sensi	<b>126, 404,</b> 1954
	tivity of the planarian worm Dendrocoelum lacteum (T)	<b>127</b> , 42 <i>P</i> , 1954.
,,	Marriott, F H C and Quantum fluctuations and uncertainty of seeing at the absolute threshold (T)	
Pirie, Vivien W	Griffith, H D, Kosterlitz, H W and Electrical condenser manometer and myograph for recording low pressures and tensions (T)	118, 5 <i>P</i> , 1952
,,	Kosterlitz, H W and Some factors concerned with the peristaltic reflex in the guinea pig's ileum	
"	Kosterlitz, H W, — and Robinson, Judith A Contraction of the longitudinal muscle of the iso	120, 001, 100
,,	lated guines pig ileum, caused by raising the pressure in the lumen  Kosterlitz, H W, — and Robinson, Judith A	<b>128,</b> 8 <i>P</i> , 1955
	The mechanism of the peristaltic reflex in the iso lated guinea pig ileum	133, 681, 1956
Pitts, W	Howland, $B$ , Lettvin, $J$ $Y$ , McCulloch, $W$ $S$ , and Wall, $P$ $D$ On microelectrodes for plotting currents in nervous tissue	122, 24 <i>P</i> , 1953
Podolsky, R J	A mechanism for the effect of hydrostatic pressure on biological systems	132, 38 <i>P</i> , 1956
Pomeroy, R W	Comline, R S, — and Titchen, D A Histo logical changes in the intestine during colostrum absorption	<b>122,</b> 6 <i>P</i> , 1953
Posner, A 8	Dallemagne, $M$ $J$ , $Fabry$ , Claudine and The relation between bone salts and certain synthetic apatites	126, 18 <i>P</i> , 1954
Powell, T P S	Cobb W A, Cowan, W M, —— and Wright, M K Some observations on the interaction between evoked strychnine spikes and specific responses in the visual cortex of the cat Cobb, W A, Cowan, W M, —— and Wright M K	128, 54 <i>P</i> , 1955
,,	The relation between photically evoked specific responses and strychnine spikes in the visual cortex of the cat  Cobb W A Cowan W M, —— and Wright, M K	129, 305, 1955
	Intracortical excitation following strychnine spikes	<b>129,</b> 316, 1955
PRANKERD, T A J	Harris E J and The effects of tonicity upon the rate of sodium excretion from human erythro	120, 63 <i>P</i> , 1953
,,	cytes  Harris, E J and The rate of sodium extrusion from human erythrocytes	121, 470, 1953
PRICHARD, B N C	The action of some drugs and of electrical stimu lation of the vago sympathetic trunk upon the perfused frog heart (T)	123 2P, 1953
Prichard, Marjorie M L	Daniel, P M and Arterio venous anastomoses in the tongue of the dog, the sheep and the goat	118, 18 <i>P</i> , 1952

Prichard, Marjorie M L	Ardran, G. M., Dawes, G. S., —, Reynolds, S. R. M. and Wyatt D. G. The effect of ventila tion of the foetal lungs upon the pulmonary circulation  Daniel P. M., — and Ward McQuaid J. N. An angiographic study of the effect of renin upon	118 12 1952 124, 106, 1954
"	the renal circulation and Daniel, P. M. Necrosis in the anterior lobe of the pituitary produced by arresting the blood flow in the hypophysial portal vessels in the stalk.	133, 4 <i>P</i> , 1956
PRIME, F J	and Westlate, E K The respiratory response to carbon dioxide in emphysema (T)	119 33 <i>P</i> , 1952
PEDIROSE, J. A. E.	Campbell F W and The state of accommodation of the human eye in darkness (T)	116, 52 <i>P</i> , 1952
PRINGLE, J W S	The mechanism of the invogenic rhythm of certain insect striated muscles	124 269, 1954
PROVINS, K. A.	The role of receptors in muscle and tendon in con trolling the application of finger pressure in man	128, 55 <i>P</i> , 1955
Prys, J	Dire, C. Hawes, L. A. and Methods of artificial respiration (Holger, Nielsen, Schafer, and Eve methods) (T)	119, 31 <i>P</i> , 1952
Pugh L. G C	Mottram, R S and On the emptying of Douglas bags (T)	116, 3P 1951
17	The effect of supplementary oxygen on accluma tized men at 20 000 ft (T)  Technique employed for measuring respiratory	120 18 <i>P</i> 1953
,	exchanges on Mount Everest, 1953  Haemoglobin levels on the British Himalayan  Expeditions to Cho Oyu in 1952 and Everest in	123, 25 <i>P</i> , 1953
	1953	126, 38P 1954
Preн, P D S	and Scarisbrick R Acetate uptake by the foetal sheep	129, 67P, 1955
Ревущ, С	Darson, H and An apparatus for controlled in jection over long periods of time Daison, H and Cryoscopic apparatus suitable for studies on aqueous humour and cerebro spinal	117 18 P, 1952
	fluid	124, 12P, 1954
QUESVE, L P LE	_ ,	
Осития у Б	A method for the study of drugs upon frog muscle fibres unnervated by large or small diameter motor nerves using the isolated sciatic nerve ilio fibularis muscle preparation (T)	
QUILLIAM T A.	and Shawe G D H Two somatic nerves containing	123 2P 1953
	and Sato M Some neurohistological observe	117 20P, 1952
	tions on Pacinian corpuscles (T) and Sato M The distribution of myelin on nerve fibres from Pacininian corpuscles	124 2P, 1954
RADFORD E P		129 167, 1955
2 1	Ferris, B G McIlroy, M B, Mead J — and Whittenberger, J L The principles of respirators mechanics	
		131 IP 1956

Raine, Laureen	Cox, E V, Latner, A L, McEvoy Bowe, E, —— and Ungley, C C Studies on the separation of Castle's intrinsic factor (T)	<b>121,</b> 13 <i>P</i> , 1953
Rall, W	Monosynaptic reflex input output analysis	125, 30P, 1954
Ramsay, A G	Brown, D, Ferguson, I D and Guinea pigs reared on a diet containing synthetic ascorbic acid	<b>121</b> , 36 <i>P</i> , 1953
,,	Ferguson, I D and An automatic refilling water container for laboratory animals	121, 37 <i>P</i> , 1953
"	Ferguson, I D, Hale, A J and The amount of colloid in the thyroid glands of guinea pigs.  Muscle metabolism and the regulation of breathing	126, 48 <i>P</i> , 1954 127, 30 <i>P</i> , 1954
Rankin, Jessie J	Lack of correlation between thymus and body weights during adolescence and early maturity	<b>125,</b> 316, 1954
RAPER, A B	Lehmann, H and The maintenance of different sickling rates in similar populations	133, 15 <i>P</i> , 1956
Rappaport, A M	Casselman, W G Bruce and 'Guided' catheteriza tion of hepatic veins and estimation of hepatic blood flow by the bromsulphalein method in normal dogs	<b>124,</b> 173, 1954
,,	Casselman, W G Bruce, and Estimated hepatic blood flow and bromsulphalein clearance in dogs with experimental ischaemia of the liver	<b>124</b> , 183, 1954
RASHBASS, C	Bligh, $A$ and The frog's sciatic gastroenemius preparation (Film) (T)	120, 45P, 1953
Rasmussen, K G	Beck, W H, —— and Wynne Jones, W F K Proto chemical reactions The behaviour of membranes as protodes and the theory of the glass electrode	<b>121,</b> 6 <i>P</i> , 1953
RATCLIFFE, A H	Skin resistance changes after sympathectomy (T)	117, 6P, 1952
Read, G	and Palmer, J F Electronic gate for use with Dekatron counter (T)	132, 32 <i>P</i> , 1956
REDFEARN, J W T	Halliday, A M and The effect of ischsemis on finger tremor	123, 23 <i>P</i> , 1953
,	Halliday, A M and An analysis of the frequencies of finger tremor in healthy subjects	134, 600, 1956
REDGATE, E S	Gellhorn E, Nalao, H and The influence of lesions in the anterior and posterior hypothalamus on tonic and phasic autonomic reactions	131, 402, 1956
REED, R	Hall, D A, —— and Tunbridge, R E Morpho logical studies on normal and pathological connective tissue (T)	122, 69 <i>P</i> , 1953
REEVE, E B	Armin J, Grant, R T, Pels, H and The plasma, cell and blood volumes of albino rabbits as estimated by the dye (T 1824) and <sup>32</sup> P marked cell methods	116, 59, 1952
REICHLIN, S	Brown Grant, K ton Euler, C, Harris, G W and The measurement and experimental modification of the activity of the thyroid gland of the rabbit (T)	120, 59 <i>P</i> , 1953
"	Brown Grant, K von Euler, C Harris, G W and The measurement and experimental modification of thyroid activity in the rabbit	126, 1, 1954

REIGHLIN, S	Brown Grant, K, Harris, G W and The effect of emotional and physical stress on thyroid activity in the rabbit  Brown Grant K, Harris, G W and The influence of the adrenal cortex on thyroid activity in the rabbit	126, 29, 1954 126, 41, 1954
Red, A M	Draper, J, —— and Renbourn, E T Physiological data derived from a trial of a water imperme able-water vapour permeable garment	127, 58 <i>P</i> , 1955
Reid, E	Lockett, Mary F, — and Young, F G The diabetogenic action of purified growth hormone in adrenalectomized animals	121, 28, 1953
Reid, G	Circulatory effects of 5 hydroxytryptamine	118, 435, 1952
REINERT, H H R	Perry, W L M and The role of potassium in the ganghon blocking action of the methonium compounds (T)  Perry, W L M and The effects of preganglionic denervation on the reactions of ganglion cells	123, 69 P, 1954 126, 101, 1954
,	Perry, W L M and Perfusion of the cat's superior cervical ganglion under anaerobic conditions (T)  Gertner, S B, Malcolm, J L and Registration of	128, 3 <i>P</i> , 1955
**	the protrusion of the rat's eyeball to cervical sympathetic stimulation (T)  Perry, W L M and On the metabolism of normal and denervated sympathetic ganglion cells	128, 3 <i>P</i> , 1955 130, 156, 1955
REMOLINA J	Acheson, G H and The temporal course of the effects of postganglionic axotomy on the inferior mesenteric ganglion of the cat	<b>127,</b> 603, 1955
RENBOURN, E T	Phipps, L. W.,——and Taylor, P. F. The measure ment of relative humidity and vapour pressure near the skin Lewis, B. D. and Chincal thermometry Regional	127, 46 <i>P</i> , 1955
	differences and times for equilibration of thermo	
**	meter  Draper J, Reid, A M and Physiological data derived from a trial of a water impermeable—	127, 57 P, 1955
RENNICE BABBARA R	meter  Draper J, Reid, A M and Physiological data derived from a trial of a water impermeable—water vapour permeable garment  Born, G V R, Dawes, G S, Mott, Joan C and The relief of central cyanosis due to venous ad mixture by reconstitution of the ductus arteriosus Born, G V R, Dawes, G S Mott, Joan C and The	127, 58 P, 1955 127, 53 P, 1955
Rennick Babbara R	meter Draper J, Reid, A M and Physiological data derived from a trial of a water impermeable— water vapour permeable garment  Born, G V R, Dawes, G S, Mott, Joan C and The relief of central cyanosis due to venous ad mixture by reconstitution of the ductus arteriosus Born, G V R, Dawes, G S Mott, Joan C and The mechanism of constriction of the ductus arteriosus in the newborn lamb  Amoroso, E C Dawes, G S, Mott, Joan C and Occlusion of the ductus venosus in the mature	127, 58 <i>P</i> , 1955 127, 53 <i>P</i> , 1955 129, 28 <i>P</i> , 1955
Rennick Babbara R	meter Draper J, Reid, A M and Physiological data derived from a trial of a water impermeable— water vapour permeable garment  Born, G V R, Dawes, G S, Mott, Joan C and The relief of central cyanosis due to venous ad mixture by reconstitution of the ductus arteriosus Born, G V R, Dawes, G S Mott, Joan C and The mechanism of constriction of the ductus arteriosus in the newborn lamb Amoroso, E C Dawes, G S, Mott, Joan C and Occlusion of the ductus venosus in the mature foetal lamb Born, G V R, Dawes, G S, Mott, Joan C and The relief of central cyanosis caused by pulmo nary arterio venous shunts by construction of or	127, 58 P, 1955 127, 53 P, 1955 129, 28 P, 1955 129, 84 P 1955
Rennick Babbara R	meter  Draper J, Reid, A M and Physiological data derived from a trial of a water impermeable-water vapour permeable garment  Born, G V R, Dawes, G S, Mott, Joan C and The relief of central cyanosis due to venous ad mixture by reconstitution of the ductus arteriosus Born, G V R, Dawes, G S Mott, Joan C and The mechanism of constriction of the ductus arteriosus in the newborn lamb  Amoroso, E C Dawes, G S, Mott, Joan C and Occlusion of the ductus venosus in the mature foetal lamb  Born, G V R, Dawes, G S, Mott, Joan C and	127, 58 <i>P</i> , 1955 127, 53 <i>P</i> , 1955 129, 28 <i>P</i> , 1955 129, 84 <i>P</i> 1955

RENNICK, BARBARA R	Dawes, G S, Mott, Joan C and Some effects of adrenaline noradrenaline and acetylcholine on the foetal circulation in the lamb	134, 139, 1956
RENSCHLER, H. E	Munro, D S, — and Wilson, G M The use of physical methods and of sodium tetraphenyl boron for the separation of <sup>42</sup> K and <sup>24</sup> Na in bio logical fluids	
"	Kulpatrick, R, Miller, H, Munro, DS, — and Wilson, G M A comparison of the distribution	128, 68 <i>P</i> , 1955
"	of <sup>48</sup> K and <sup>86</sup> Rb in the rabbit  Kilpatrick, R, ——, Munro, D S and Wilson, G M  A comparison of the distribution of <sup>42</sup> K and <sup>86</sup> Rb in rabbit and man	128 71 P, 1955 133, 194, 1956
RENTON, G H	and West Matherbe, H Adrenatine and noradrena line in human plasma during natural sleep	131, 170, 1956
Reyes, E	Brobeck, J R, Larsson, S and A study of the electrical activity of the hypothalamic feeding mechanism	132, 358, 1956
REYNELL, P C	and Spray, G H The simultaneous measurement of absorption and transit in the gastro intestinal tract of the rat	131, 452, 1956
,,	and Spray, G H The absorption of glucose by the intact rat	134, 531, 1956
REYNOLDS, S R M	Ardran, G M, Dawes, G S, Prichard M M L, —— and Wyatt, D G The effect of ventilation of the foetal lungs upon the pulmonary circula tion	<b>118</b> , 12, 1952
,,	Chinard, F P, Danesino, V, Huggett, A St G Paul, W M and The passage of sugars across	127, 8 <i>P</i> , 1954
"	the monkey placenta  Chinard, F P, Danesino, V, Hartmann, W L,  Huggett, A St G, Paul, W and The transmission of hexoses across the placenta in the human and the rhesus monkey (Macaca mulatta)	132, 289, 1956
Richards, T G	and Williams, T D Velocity changes in the carotid and femoral arteries of dogs during the cardiac cycle	<b>120</b> , 257, 1953
"	Determination of the elastic properties of the peripheral vessels in vivo	122 291, 1953
,,	Andrews, W H H, Maegratth, B G and Brom sulphthalem abstraction by perfused canne livers	129, 77 <i>P</i> , 1955
"	Howell, F R and The determination of pressure volume changes in the femoral tree of the cat in relation to vascular tonus and the resistance offered to blood flow	130, 414, 1955
,	Andrews W H H and Removal of bromsulph thalom by the portal vein and the hepatic artery in the anaesthetized dog  Andrews, W H H, Maegrath B G and The offect	131 21 <i>P</i> , 1956
	upon bromsulphalein extraction of the rate and distribution of blood flow in the perfused canine liver	131 669, 1956
"	Andrews, If H H and Studies on biliary excretion of the dog using an isolated perfused liver	132, 6P 1956

# INDEX OF AUTHORS

Richardson, A T	Churchill Davidson, H C and Neuromuscular transmission in my asthenia gravis	122, 252, 1953
Richardsov, K C	Birbeck, M S C, Howe, A and Quantitative observations on mitochondria in the guinea pig mammary gland (T)	130, 22 <i>P</i> , 1955
Richardson, M W	Duguid, J. B., Hulse, E. V., —— and Young, A. E. A method of calculating the respiratory surface area of the lung	121, 8 <i>P</i> , 1953
RICHTER, D	Cohn, P, Gastonde, M K and The localization of protein formation in the rat brain	126, 7 <i>P</i> , 1954
Ridge, J W	Langham, M E and The effect of ascorbic acid transfer on the lactic acid concentration of the aqueous humour after unilateral carotid ligation	124, 26 <i>P</i> , 1954
,,	Church, A and A three syringe constant injection apparatus	127, 43 <i>P</i> , 1955
***	The effect of ascorbic acid transfer on the lactic acid concentration of the aqueous humour after unilateral preganglionic cervical sympathectomy	128, 5 <i>P</i> , 1955
,,	The effect of unlateral carotid occlusion and of unlateral preganglionic cervical sympathotomy on the chloride and bicarbonate of the aqueous	120, 01 , 1500
**	humour A semi microrespirometer (T) The effect of unilateral common carotid occlusion	128, 42 <i>P</i> , 1955 132, 32 <i>P</i> , 1956
**	and of acute unilateral preganglionic cervical sympathotomy on the anions of the aqueous humour	133, 31, 1956
Riggs, L A	Armington, J C Johnson, E P and The scotopic A wave in the electrical response of the human retina	118, 289, 1952
RILEY J F	and West, G B Histamine in tissue mast cells and West, G B Mast cells and histamine in normal	117, 72 <i>P</i> , 1952
,	and pathological tissues and West, $G$ $B$ The presence of histamine in tissue must cells	119, 44 <i>P</i> , 1952
	Cass Rosemary, Head, K W, — Stroud, S W and West, G B Heparin and histamine in mast	120, 528, 1953
23	cell tumours  and West, G B Mast cells and histamine in hog  stomach	125, 47 <i>P</i> , 1954
	and West, G B Mast cell and histamine profiles in the skin of various species	130, 3 <i>P</i> , 1955 130, 28 <i>P</i> , 1955
Rimaldini L M	A quantitative method of cell culture	123, 20 <i>P</i> , 1953
RDG PA	Lee J and The effect of local anaesthesia on the appreciation of passive movement of the great toe in man  Browne K Lee J and The sensation of passive movement at the metatarso phalangeal joint of	123, 56 <i>P</i> , 1954
Висние Н D	the great toe in man  Andrews, W H H, Hecker, R, Maegrath, B G	126, 448, 1954
**	Andrews, W H H, Hecker R, Maegrath, B G and On direct connexions between henotic arter	<b>122,</b> 9 <i>P</i> , 1953
11	and hepatic vems in the canine liver	122, 51P 1953

Вггонів, Н D	Andrews, W H H, Hecker, R, Maegraith, B G and Constriction within the canine hepatic	
"	venous tree  Andrews, W H H, Hecker, R, Maegrath, B G  and The action of adrenaline, L nor adrenaline, acetylcholine and other substances on the blood vessels of the perfused canine liver	122, 53 <i>P</i> , 1953 128, 413, 1950
Rггонге, J M	Goffart, M and The effect of adrenaline on the contraction of mammalian skeletal muscle	116, 357, 1952
"	Abbott, B C, Bigland, Brenda and The physic logical cost of negative work	117, 380, 1952
"	The relation between force and velocity of shortening in rat muscle	<b>123</b> , 633, 1954
,,	Gray, J A B and Effects of stretch on single myelinated nerve fibres	124, 84, 1954
,,	The duration of the plateau of full activity in frog muscle	124, 605, 1954
,,	The effect of nitrate on the active state of muscle	126, 155, 19ə4
,,	Measurement of the active state of frog muscle (T)	<b>128,</b> 3 <i>P</i> , 1955
**	Lammers, W and The effect of quinne on skeletal muscle	128, 17 <i>P</i> , 1955
**	Lammers, W and The action of quinine and quini dine on the contractions of striated muscle	<b>129</b> , 412, 1955
"	and Wilkie, $D$ $R$ The effect of previous stimulation on the active state of muscle	130, 488, 1950
"	Douglas, W W, — and Schaumann, W De pressor responses from stimulation of fast and slow conducting fibres in the rabbit aortic nerve	130, 12 <i>P</i> , 19 <sub>0</sub> 5
**	Douglas, W W and Non medullated afferents in the buffer nerves	131, 35 <i>P</i> , 1956
,,	Douglas, W. W., —— and Schaumann, W. Pulsa tile and non-pulsatile electrical stimulation of the rabbit s aortic nerve	131, 36 <i>P</i> , 1956
"	Douglas, W W, —— and Schaumann, W De pressor reflexes from medullated and non medul lated fibres in the rabbit's sortic nerve	<b>132,</b> 187, 1956
"	Douglas, W W and The conduction of impulses through the superior cervical and accessory	
,	cervical ganglia of the rabbit  Douglas, W W, —— and Schaumann, W A study of the effect of the pattern of electrical stimula	133, 220, 1950
	tion of the aortic nerve on the reflex depressor responses	<b>133,</b> 232, 1956
**	Edwards, C, — and Wilkie, D R Effect of some cations on the active state of muscle	<b>133,</b> 412, 1956
"	Douglas, W W and Cardiovascular reflexes produced by electrical excitation of non medullated afferents in the vagus, carotid sinus and aortic nerves	<b>134,</b> 167, 1956
,,	and Straub, R W The after-effects of repetitive stimulation on mammalian non-medullated fibres	134, 698, 19 <sup>56</sup>
,,	and Straub, R W The effect of cooling on the size of the action potential of mammalian non medullated fibres	134, 712, 1956
Roberts, F	Causley, D J, Norrie, G O, —— and Young, J Z Counting of microscopic particles (T)	120, 32 <i>P</i> , 1953
Roberts, H E	Creese, R and Calcium and muscle sodium	127, 32 <i>P</i> , 1954

77 7

# INDEX OF AUTHORS

Roberts, J A. F	Hamilton, M, Piclering, GW, — and Soury, GSC The relationship of arterial pressure to age in a sample of the general population (T)	122, 37 <i>P</i> , 1953
Roberts, J R E	Darson, H., Matchett, P. A. and Comparative studies of the distribution of chloride between plasma and aqueous humour	116, 47 <i>P</i> , 1952
Roberts, M	and Robson, J M The histaminase content of the rat uterus, and its relation to the decidua and Robson, J M The histaminase content of the	117, 37 <i>P</i> , 1952
77	rat uterus and its relation to the decidua	119, 286, 1953
Roberts, T D M.	Reflex interaction of synergic extensor muscles of the cat hind limb The inclusion of the muscle-spindle afferent in the	117, 5 <i>P</i> , 1952
23	final common path'	118, 8 <i>P</i> , 1952
,	Andrew, A. M., Boyd, I. A. and Apparatus for the analysis of the stimulus response relationship of proprioceptors in the knee joint of the cat (T). Andrew, A. M. and A. pulse interval meter for	121, 31 <i>P</i> , 1953
•	recording impulse frequency directly  Boyd I A and Proprioceptive discharges from	121, 31 <i>P</i> , 1953
**	stretch receptors in the knee joint of the cat The effects of an electrocution procedure for the	122, 38, 1953
	destruction of unwanted dogs and cats  Bishop, B Garry R C, — and Todd, J K	126, 33P, 1954
***	Control of the external sphincter of the anus in the cat	134, 229, 1956
ROBEPTSON, J D	, Swan, A A B and Whitteridge, D Increase in sensitivity of baroreceptors produced by anses thetics	128, 6 <i>P</i> , 1955
•	, Swan, A. A. B. and Whitteridge, D. Effect of anaesthetics on systemic baroreceptors	131, 463, 1956
ROBERTSON P. A.	Ambache, N and The pilomotor axon reflex (T)  Ambache, N and Nicotinic actions of m bromo and 3 5-dibromo phenyl ethers of choline (M.B.F.	118, 58 <i>P</i> , 1952
,	and D.B.F)  Ambache N Perry, W L M and The ganghonic	
,	action of natural muscarine (T) An antagonism of 5 bydroxytryptamine by atropine	119, 53 <i>P</i> , 1952 121, 54 <i>P</i> , 1953
"	Potentiation of 5 hydroxytryptamine by the true- cholinesterase inhibitor 284C51	125, 37P, 1954
Robinson Judith A	Burn J H and Effect of denervation on amine oxidase in the nictitating membrane  Burn, J H and Restoration of amine oxidase in	116 71 P 1051
	denervated tissues  Burn J. H and Hypersensitivity of the de-	117, 35P, 1952
	nervated michitating membrane and amine oxidase  Kosterlit. H W , Pirie Vivien W and Con traction of the longitudinal muscle of the soleted	120, 224, 1953
	guinea pig ileum caused by raising the pressure in the lumen  Kosterlitz, H W and Mechanism of the con- traction of the longitudinal muscle of the related	128, 8 <i>P</i> , 1955
	guinea-pig ileum, caused by raising the pressure in the lumen	129 18P 1955

ROBINSON, JUDITH A.	Kosterlitz, H W and The effects of lowering the bath temperature on the responses of the isolated	
"	guinea pig ileum  Innes, I R, Kosterlitz, H W and Some pro perties of the longitudinal muscle of the guinea	131, 7 <i>P</i> , 1956
,,	pig ileum  Kosterlitz, H W, Pirie, Vivien W and The	<b>133,</b> 6 <i>P</i> , 1956
_	mechanism of the peristaltic reflex in the isolated guinea pig ileum	<b>133</b> , 681, 1956
Robinson, J R	Ammonia formation by surviving kidney slices without specific substrates	124, 1, 1954
"	The effect of sodium and chloride ions upon swelling of rat kidney slices treated with a mercurial diuretic	134, 216, 1906
ROBINSON, R J	Coxon, R V and Specific activity of carbon dioxide in arterial and venous blood following injection of <sup>14</sup> C labelled glucose	132, 48 <i>P</i> , 1956
Robson, J M	and Sharaf, A A Effect of adrenocorticotrophic hormone (ACTH) and cortisone on pregnancy Heath, C Höhn, E O and Quantitative experi	116, 236, 1952
	ments on the mode of oestrogen progesterone antagonism in the rabbit endometrium	116, 245, 1952
"	Roberts, M and The histaminase content of the rat uterus, and its relation to the decidua	117, 37P, 1952
,,	Didcock, K A, Picard, C W and The action of podophyllotoxin on pregnancy  Roberts, M, and The hystomyre content of the ret.	117, 65P, 1952
**	Roberts, M and The histamine content of the rat uterus, and its relation to the decidua Burstall, Pamela A, Cox, E V, —, Ross, D C,	119, 286, 1903
,,	Schofield, B and Ungley, C C The preparation of pyloric gastric pouches in pigs as a source of	1050
"	Castle's intrinsic factor $Evans, I E \ and \ Local antagonism of the effects of$	121, 3 <i>P</i> , 1953 124, 39 <i>P</i> , 1954
,,	oestrogen and progesterone Evans, $I$ E and The effect of SKF 525 ( $\beta$ diethylaminoethyl diphenylpropylacetate) on the	124, 301, 1001
	duration of action of synthetic and natural oestrogens (T)	128, 24 <i>P</i> , 1955
,,	and $Trounce$ , $\vec{J}$ $R$ The cardiac actions of an amino steroid	129, 10 <i>P</i> , 1955
RODDIE, I C	and Shepherd, J T A comparison of the blood flow through the hand during local heating, release of sympathetic vasomotor tone by indirect heating	129, 23 <i>P</i> , 1955
"	and a combination of both  Shepherd, J. T. and Whelan, R. F. The effects of  by droxytyphanine on the peripheral blood	130, 8 <i>P</i> , 1955
***	vessels of the human subject  Shepherd, J T and Whelan, R F A photometric  method for the rapid measurement of blood	131, 2 <i>P</i> , 1956
**	oxygen saturation and capacity and Shepherd, J T The increase in forearm blood flow in response to raising the legs (T)	131, 23 <i>P</i> , 1956
"	and Shepherd, J T The blood flow through the hand during local heating, release of sympathetic	
	vasomotor tone by indirect heating, and a combination of both	131, 657, 1956

	INDIA OF LEVEL	
Roddie, I. C	, Shepherd, J T and Whelan, R F The effect of heating the legs and of posture on the blood flow through the muscle and skin of the human fore arm	132, 47 <i>P</i> , 1956
,	Shepherd, J. T. and Whelan, R. F. The effect on the blood flow through the muscle and the skin of the forearm of infiltration of the motor nerves with local anaesthetic solution , Shepherd, J. T. and Whelan, R. F. The similarity of the vasomotor and sudomotor effects in the	132, 65 <i>P</i> , 1956
,	skin of the forearm of infiltrating the cutaneous or the motor nerves with local anaesthetic solution Shepherd, J. T. and Whelan, R. F. Sympathetic	132, 66 <i>P</i> , 1956
77	cholinergic fibres producing vasodilatation in forearm skin  , Shepherd, J. T. and Whelan, R. F. Evidence from venous oxygen saturation measurements that	134, 13 <i>P</i> , 1956
Roddie, R. A.	the increase in forearm blood flow during body heating is confined to the skin.  The effect of arm position on the heat elimination	134, 444, 1956
Nobble, N. A.	from the fingers	127, 11 P, 1954
RODGER, F C	Evidence of an interrelationship between thiamin and riboflavin, and the role they play in main taining the integrity of the visual path	116, 23 <i>P</i> , 1951
•	Bell, Kathleen M., Kirby, A R and The source of corneal nerve fibres in the cat	117, 56 <i>P</i> , 1952
Rogers, A. F	Gall, W J, —— and Yoffey J M A low pressure chamber  An adjustable constant volume injection syringe	124, 54 <i>P</i> , 1954 124, <i>55P</i> , 1954
,	Carlyle A., Field, E. J., Grayson, J. and Blood flow reactions in the brain Hough, L. and Synthesis of amino acids from water, hydrogen, methane and ammonia	124, 56 <i>P</i> , 1954 132, 28 <i>P</i> , 1956
Rook, J. A. F	Blaxter, K L, Graham N McC and Respiration calorimetry with farm animals  Blaxter, K L and The effect of Mg deficiency on	121, 39 <i>P</i> , 1953
Post f	the energy exchange of calves	121, 48P, 1953
Rosa, L	Herzheimer, H and The action of cortisone in the anaphylactic shock of the guinea pig Armitage, P., Herzheimer H and Antibistamine	118, 7 <i>P</i> , 1952
Rose, J E	action in the anaphylactic shock of the guinea pig Davies, P. W., Erulkar S. D. and Single unit	118, 34 <i>P</i> , 1952
Rosenberg H.	activity in the auditory cortex of the cat  Amoroso, E C Bell F R and The relationship of	126, 25P 1954
	the vasomotor and respiratory regions in the medulla oblongata of the sheep	126 86, 1954
Rosensweig, J	The effect of arm position on the oxygen saturation of the effluent blood  The effect of the position of the arm on the oxygen	10# 12.72
Ross D C	saturation of the effluent blood	129, 281, 1955
****** D C	Burstall Pamela A, Cox, E V, Pobson J G —, Schofield, B and Ungley, C C The pre paration of pyloric gastric pouches in pigs as a	•
	source of Castle's intrinsic factor	121, 3P, 1953

Ross, D N	Extra corporeal cooling (T) Cranston, W I, Pepper, Margot C and Blood	<b>123</b> , 51 <i>P</i> , 1954
,,	reaction during hypothermia  Cranston, W I, Pepper, Margot C and Carbon	<b>125,</b> 20 <i>P</i> , 1954
	dioxide and control of respiration during hypo thermia	127, 380, 1955
Ross, E J	The influence of insulin on the permeability of the blood aqueous barrier to glucose	116, 414, 1952
,	The permeability of the blood aqueous barrier to small molecules	117, 25P, 1952
"	Insulin like effect of anterior pituitary extract in accelerating the transfer of glucose across the blood aqueous barrier	
Ross, G I M	Cox, E V, —— and Ungley, C C Absorption of vitamin B <sub>12</sub> in man and animals (T)	121, 22 <i>P</i> , 1953
Ross, K F A	Barer, R and Refractometry of living cells	118, 38P, 1952
"	Barer, R, Howne, J B, —— and Tkaczyk, S Applications of refractometry in haematology	120, 67P, 1953
Rossi, P de	see de Rossi, P	
Rotblat, J	Fifteen million volt linear accelerator for radio biological research (T)	127, 30 <i>P</i> , 1954
ROUGHTON, F J W	actions $\text{Hb}_4X_3 + X \rightleftharpoons \text{Hb}_4X_4(X=0_3 \text{ or CO})$ for mammalian haemoglobin	117, 76 <i>P</i> , 1952
,,	Longmuir, I S and The diffusion coefficients of carbon monoxide and nitrogen in haemoglobin solutions	118, 264, 1952
"	Gibson, $Q$ $H$ and The effects of temperature and of $p$ chloromercuribenzoic acid on the reaction $Hb_4O_6 \rightleftharpoons Hb_4O6 + O_1$ in solutions of sheep blood. The equilibrium between carbon monoxide and	122, 45P, 1953
,1	sheep haemoglobm at very high percentage saturations	126, 359, 1954
,,	Gibson, Q H and The reactions of sheep haemo globin with nitric oxide Gibson, Q H, Kreuzer, F, Meda, E and The	<b>128</b> , 69 <i>P</i> , 1955
,,	kinetics of human haemoglobin in solution and in the red cell at 37° C	<b>129,</b> 65, 1955
Rowe, D S	An electronic colloid osmometer	123, 18P, 1953
"	The similarity of the protein mixtures derived from serum by selective ultrafiltration to the urine proteins in the nephrotic syndrome	134, 1 <i>P</i> , 1956
ROWLAND, L P	and Samueloff, $M$ Some effects of local cooling on the human forearm	133, 73 <i>P</i> , 1956
Rowlands, E N	Edwards, D A W, Honour, A J and Method for recording rapid changes of pressure in the human gut	120, 36 <i>P</i> , 1953
Rowlands, S	Assay of two radioactive isotopes in blood	120, 19P, 1953
,,	Groom, A C and Serial measurements of cardiac output blood volume and pulmonary circulation time in the cat	132, 5P, 1956
Rowson, L E	Adams, C E, Hunter, G L and Maternal influence on transplanted eggs (T)	125, 15 <i>P</i> , 1954

RUSHTON, W A. H	A transparent electrical acreen	117, 46P, 1952
"	Apparatus for analysing the light reflected from the eve of the cat	117, 47P, 1952
"	Lussier, J J and The excitability of a single fibre in a nerve trunk	117, 87, 1952
"	Hagins, W A and The measurement of rhodopsin in the decerebrate albino rabbit	120, 61 P, 1953
3,9	Hagins, W A and Measurement of the rhodopsin density in the eye (T)  Campbell, F W and An apparatus for measuring	122, 9P, 1953
**	rhodopsin in the human eye (T)  Campbell, F W and The measurement of rhodop	125, 15P, 1954
>1	sin in the human eye	126, 38P, 1954
**	The density of rhodopsin in the human retina (T)	128, 24 P, 1955
,,	Brindley, G S and The detection of a visual pig	100 to D 1055
	ment in living human cones (T)	128, 59 <i>P</i> , 1955
"	Foveal photopigments in normal and colour blind Campbell, F W and Measurement of the scotopic	129, 41 <i>P</i> , 1955
•	pigment in the living human eye  Donner, K O and The Stiles Crawford effect in the	130, 131, 1955
**	frog a retina	132, 37P, 1956
	The bleaching and regeneration of cone pigments in	, -, -, -, -, -, -, -, -, -, -, -, -,
,	the foves of the human eye (T) The difference spectrum and the photosensitivity	133, 35P, 1956
,	of rhodopsin in the living human eye	134, 11, 1956
	The rhodopsin density in the human rods	134, 30, 1956
Rushworth, G	Matthews, P B C and The differential effects of proceine narcosis of nerve to soleus on tendon jerk and motor twitch (T)	126, 11 <i>P</i> , 1954
"	Matthews, P B C and Differential nerve narcosis with procaine	131, 30 <i>P</i> , 1956
RYAN H	Beary, Mary, Conway, E J and Active transport of magnesium in yeast (T)	125, 66 <i>P</i> , 1954
ST JOHN LYBURN,	A comparison of the composition of awest induced	
E F	by dry heat and by wet heat	134, 207, 1956
SALTER, NANCY	Darcus, H D and The effect of repeated muscular	,,
	exertion on muscle strength	129, 325, 1955
1)	The effect on muscle strength of maximum iso	
	metric and isotonic contractions at different	
Summa C T	repetition rates	130, 109, 1955
Sample, S. J	Forster, C A, Heaf, P J and Compliance of the lungs during anaesthesis (T)	
Samueloff, M.		133, 58P, 1956
,	Joels, N and Diffusion respiration in the dog (T) Nashat, F S and Method for crystallization of	130, 34P, 1955
	oxyhaemoglobin (T)  Joels, $N$ and The metabolic acidosis and respira	130, 39P, 1955
	tory centre activity in diffusion respiration  Nashat, F S, Neil, E and The effect of tempera  ture on the pH of solutions of oxyhaemoglobin	130, 52P, 1955
**	Joels, N and Metabolic acidosis in diffusion	130 520 1055
27	Joels, N and The activity of the medullary control	100 0
>>	in diffusion respiration  Rowland, L P and Some effects of local cooling on the human forearm	400
	or ore named folestin	133, 73 <i>P</i> , 1956

Sanderson, P H	Dale, R A and The mode of action of a mercuria diuretic in the human subject (T)	117, 39P, 1952
11	Cranston, W I, — and Stapleton, T The effects of acetazoleamide on $CO_2$ carriage in man	<b>129,</b> 71 <i>P</i> , 1955
SANTLER, JOYCE E	Harkness, Margaret L R, Harkness, R D and Changes in the collagen content of the thyroid in rats treated with thiouracil	
SARNOFF, S J SATO, M	Neurohaemodynamics of acute pulmonary oedema Gray, J A B and Potentials from a Pacinian corpuscle (T)	
,,	Gray, J A B and Receptor potentials in Pacinian corpuscles	
,,	Gray, J A B and Properties of the receptor potential in Pacinian corpuscles	
"	Quilliam, T A and Some neurohistological ob- servations on Pacinian corpuscles (T)	124, 2 <i>P</i> , 1954
"	Quilliam, T A and The distribution of myelin on nerve fibres from Pacinian corpuscles	<b>129,</b> 167, 19 <sub>0</sub> 5
,,	Gray, J A B and The movement of sodium and other ions in Pacinian corpuscles	<b>129</b> , 594, 1950
"	Diamond, J, $Gray, J$ $A$ $B$ and $The$ site of initiation of impulses in Pacinian corpuscles	133, 54, 1956
SAUNDERS, J A	Dowse, C M and An apparatus for the determination of interfacial tension	<b>121</b> , 10 <i>P</i> , 1953
"	Kittens reared on an 'artificial' diet in the labora tory	121, 12 <i>P</i> , 1953
"	Dowse, C. M.,——and Schofield, B. The composition of lipid material from the journing of fasting dogs	128, 73 <i>P</i> , 1955
,,	Dowse, C M, —— and Schofteld, B The composition of lipid from jejunal contents of the dog after a fatty meal	134, 515, 1956
SAVINI, E C	The balance flow meter A simple method for recording blood flow	133, 27 <i>P</i> , 1956
SAXBY, O B	Temperature control in the Langendorff heart perfusion and Schuster, E H J Recording camera	133, 4 <i>P</i> , 1956 133, 5 <i>P</i> , 1956
Scarisbrick, R	Pugh, P D S  and Acetate uptake by the foetal sheep	129, 67 <i>P</i> , 1900
SCHAOHTER, M	Release of histamine from skin by neoarsphen amine and bile salt	116, 10 <i>P</i> , 1951
,,	Feldberg, W and Histamine release from skin by horse serum	117, 3P, 1952
"	Feldberg, W and Histamine release by horse sorum from skin of the sensitized dog and non-sensitized cat	<b>118,</b> 124, 1952
"	and Talesnik, J The release of histamine by egg white in non sensitized animals	<b>118</b> , 258, 1952
,,	A delayed slow contracting effect of plasma and serum due to the formation of a substance ro sembling kallidin and bradykinin	129, 30 <i>P</i> , 1955
,,	Holdstock, D J, Mathias, A P and A comparative study of kinin, kallidin and bradykinin	133, 14 <i>P</i> , 1956
SCHAUMANN, W	Douglas, W W and Pressor and depressor effects on electrical stimulation of the aortic nervo in cats with stimuli of different intensities and frequencies	128 10 <i>P</i> , 1955

Schaumann, W	The action of morphine on the guinea pig ileum (T)  Douglas, W W Ritchie, J M and Depressor	129, 82 <i>P</i> , 1955
#	responses from stimulation of fast and slow conducting fibres in the rabbit sortic nerve  Douglas W. W., Ritchie J. M. and Pulsatile and	130, 12 <i>P</i> , 1955
71	non pulsatile electrical stimulation of the rabbit s sortic nerve	131, 36 <i>P</i> , 1956
•	Douglas, W W and A study of the depressor and pressor components of the cat's carotid sinus and aortic nerves using electrical stimuli of	
,	different intensities and frequencies  Douglas, W. W., Pitchie, J. M. and Depressor	132, 173, 1956
·	reflexes from medullated and non medullated fibres in the rabbit's aortic nerve Douglas W W, Ritchie J M and A study of the	132, 187, 1956
,	effect of the pattern of electrical stimulation of the aortic nerve on the reflex depressor responses	133, 232, 1956
Schild, H. O	Mongar, J L and Parallelism between the effects of anaphylactic shock and of a synthetic hist-	116 9172 1023
"	amme releaser  Erans, D H L and Effects of removal of enteric plexuses on the reaction of intestinal circular	116, 31 <i>P</i> , 1951
,	muscle to drugs (T)  Mongar J L and A comparison of the effects of anaphylactic shock and of chemical histamine	116, 49 <i>P</i> , 1952
	releasers  Evans D H L and The reactions of plexus free	118, 461, 1952
n	circular muscle of eat jejunum to drugs  Erans, D H L and Reactions of nerve free and	119, 376, 1953
,	chronically denervated plain muscle to drugs $Arunlal.shana, O$ , $Mongar$ , $J$ , $L$ , and $Potentiation$	122 63P, 1953
	of pharmacological effects of histamine by	
	histammase inhibitors	123 32, 1954
	Non-competitive drug antagonism	124, 33P, 1954
	Mongar, J L and The effect of histamine releasers	
	and anaphylaxis on intracellular particles of	
	guinea pig lung  Ghosh $M$ $N$ and $A$ method for the continuous	126 44P, 1954.
,	recording of acid gastric secretion in the rat	130 0-D 101-
77	Mongar J L and Inhibition of anaphylaxis	128, 35P, 1955
***	Mongar J L and Effect of antigen and organic bases on intracellular histamine in guinea-pig	130, 40P 1955
	lung	131, 207, 1956
**	Mongar, J L and Inhibition of the anaphylactic reaction in vitro and in vitro	
,	Erons D H L and Reactions of chick amnion to stretch and electrical stimulation	132, 30 <i>P</i> 1956 132, 31 <i>P</i> , 1956
SCHLAPP W	Multi-channel stimulator (T)	
,	Variations in motoneurone pool excitability	132 53P, 1956 132 59P 1056
SCHNIEDEN H.	Haigh, C P and Virtual deuterium oxide space (total body water) in normal and protein deficient rats	
SCHOTTELD B		131, 377, 1956
<i>3</i>	Burstall Pamela A, Catton, W T, Heelop, T S —— and Wright D E An attempt to produce continuous stimulation of the vagal innervation of the stomach by observe com-	
	of the stomach by phrenic vagus anastomosis in dogs	
		117, 58P, 1952

Schofield, B	Burstall, Pamela A and Secretory effects of psychic stimulation and insulin hypoglycaemia on	
,,	Heidenham gastric pouches in dogs  Burstall, Pamela A and A technique for the simul taneous investigation of secretion and motility in	120, 383, 1953
,,	gastric pouches in dogs (T) Burstall, Pamela A, Cox, E V, Robson, J G,	121, 3P, 1953
"	Ross, D C, —— and Ungley, C C The preparation of pyloric gastric pouches in pigs as a source of Castle's intrinsic factor	121, 3 <i>P</i> , 1953
"	Burstall, Pamela A and The effects of pyloric antrectomy on the secretory response of Heiden hain pouches in dogs to central vagal stimulation	121, 16 <i>P</i> , 1953
"	Howat, H T and The effect of urogastrone, entero gastrone and mepyramine maleate on gastric and pancreatic secretion	<b>123,</b> 1, 1954
"	Burstall, Pamela A and The effects of pyloric antrectomy on the secretory response of Heiden	
"	hain pouches in dogs to central vagal stimulation Dowse, C M, Saunders, J A and The composition of lipid material from the jejunum of fasting	<b>123,</b> 168, 1954
	dogs	128, 73P, 1955
,,	Clayton, $C$ $G$ , Latner, $A$ $L$ and The absorption of radioactive $B_{12}$ in normal and gastrectomized rats	129, 56P, 1955
<b>37</b>	The influence of small amounts of detergents on the estimation of peptic activity in gastric juice by the Hunt method	132, 69 <i>P</i> , 1956
"	Dowse, C M, Saunders, J A and The composition of lipid from jejunal contents of the dog after a fatty meal	134, 515, 1956
SCHOFIELD, BRENDA M	The significance of the ciliary ganglion in the dilator action of nicotine on the cat's pupil (T)	117, 36P, 1952
»	The innervation of the cervix and cornu uteri in the rabbit	117, 317, 1952
,,	and Walker, J M Perfusion of the coronary arteries of the dog (T)	118, 24 <i>P</i> , 1952
"	The cholinesterase content of the cat's iris after removal of the ciliary ganglion	118, 32 <i>P</i> , 1952
**	and Walker, J M Perfusion of the coronary arteries of the dog	122, 489, 1953
,,	The influence of the ovarian hormones on myo metrial behaviour in the intact rabbit	129, 289, 1955
SCHUSTER, E H J	Microtome knife honing machine (T)  Phillips, C G and A micro forge (T)	118, 51 <i>P</i> , 1952 126, 11 <i>P</i> , 1954
"	Saxby, O B and Recording camera	133, 5P, 1956
Schweitzer, A	Daly, M de Burgh and The contribution of the vasosensory areas to the reflex control of broncho motor tone	116, 35, 1952
,,	Chungcharoen, D, Daly, M de Burgh and The blood supply of the carotid body	117, 11 <i>P</i> , 1952
,,	Daly, M de Burgh, Lambertsen, C J and Observations on carotid body blood flow in the cat	117, 12P, 1952
"	Chungcharoen, D., Daly, M. de Burgh, and The blood supply of the superior cervical and nodose ganglia (T)	117, 19 <i>P</i> , 1952
,,	Daly, M de Burgh, Lambertsen, C J and The central control of bronchomotor tone (T)	117, 20 <i>P</i> , 1952
	Committee Commit	•

Schweitzer, A	Daly, M de Burgh, Lambertsen, C J and Obser vations on the carotid body blood flow in the	117, 20 <i>P</i> , 1952
"	cat (T)  Daly, M de Burgh, Lambertsen, C J and Broncho  motor responses to altering the gaseous com	,
	position of the blood by perfusing the brain Chungcharoen, D, Daly, M de Burgh, Neil, E and	117, 60 <i>P</i> , 1952
,,	The effect of carotid occlusion upon the intra sinusal pressure with special reference to vascular communications between the carotid and verte	
2)	bral circulations in the dog, cat and rabbit Chungcharoen, D, Daly, M de Burgh and The	117, 56, 1952
,,	blood supply of the carotid body in cats, dogs and rabbits	117, 347, 1952
**	Chungcharoen, D, Daly, M de Burgh and The blood supply of the superior cervical sympathetic and the nodose ganglia in cats, dogs and rabbits	118, 528, 1952
**	Daly, M de Burgh, Lambertsen, C J and The effects upon the bronchial musculature of altering the oxygen and carbon dioxide tensions	220, 020, 2002
"	of the blood perfusing the brain  Daly, M de Burgh, Lambertsen, C J and Obser	119, 292, 1953
	vations on the volume of blood flow and oxygen utilization of the carotid body in the cat  Daly M de Burgh and The effects of stimulation	125, 67, 1954
**	of the carotid sinus baroreceptors upon the pul monary arterial blood pressure in the dog	131, 220, 1956
SCOTT J E	Duncan P R, Evans, D G, Harper, A A, Howat, H T, Oleesky, S, —— and Varley, H The use of the cholecystokinetic agent in preparations of pancreozymin to study gall bladder function in man	121, 19 <i>P</i> , 1953
Scorr M I.	Pickles, V R and An instrument for measuring thermal circulation index	125, 6 <i>P</i> , 1954
SCOTT, PATRICIA P	A new folding cage for cats	116 1170 1051
•	Growth rate of cats reared in the laboratory (T)	116, 11 <i>P</i> , 1951
>> ** **	Incidence of feline pneumonitis in laboratory cats Dickinson, Cecilia D and The effects of penicillin	116, 48 P, 1952 118, 35 P, 1952
	on the weight gained by Littens	122, 61P, 1953
) 11	Congenital cerebellar disease in a cat (T)  Dickinson, Cecilia D and Sex variations in the growth response of kittens to dietary penicillin G	123, 30P, 1953
,	(T) Dickinson, Cecilia D and Preliminary obser	127, 42P, 1954
"	vations on the protein requirements of kittens receiving a mixed diet  Lloyd-Jacob, Marny A and The cestrous cycle and	129, 78 <i>P</i> , 1955
,,	oestrous behaviour in the cat (T)	130, 36P, 1955
•	The domestic cat as a laboratory animal for the study of reproduction	
"	Greaves J P and Variation with age in the haemo globin content and packed cell volume of blood from healthy kittens (T)	
Scorr, R F	Logothetopoulos, J and Active iodide transport across the placents of the guines pig, rabbit and	133, 72 <i>P</i> , 1956
	rat	132, 365, 1956

1.2	OUTHINE OF THISTOHOUT	
SCRATCHERD, T	Harper, A A, Kidd, C and Vago vagal reflex effects on gastric and pancreatic secretion in cats Harper, A A, Kidd, C and Vago vagal reflex effects on the motility of the stomach and small intestine	129, 54 P, 1955
SELLWOOD, R V	and Williams, M G Sodium reabsorption and oxygen consumption in the rabbit's kidney after hexamethonium iodide	132, 54 <i>P</i> , 1956 123, 4 <i>P</i> , 1953
Semple, R	A case of postural hypotension (T)	119, 31 P, 1952
SEYMOUR, J	and Tappin, J W Stria vascularis in the cochlea of the living animal (T)	119, 34 <i>P</i> , 1952
SHANKS, R G	The effect of venous congestion on the heat elimination from the fingers	<b>127</b> , 12 <i>P</i> , 1954
SHARAF, A A	Robson, J M and Effect of adrenocorticotrophic hormone (ACTH) and cortisone on pregnancy	116, 236, 1952
SHARPEY SCHAFER, E P	Effects of coughing on intra thoracic pressure, arterial pressure and peripheral blood flow Circulatory reflexes in chronic disease of the	122, 351, 1953
	afferent nervous system	<b>134,</b> 1, 1956
SHARPLES, C A	Use of radioactive silver iodide to measure rate of transport of solid particles up the respiratory tract (T)	132, 53 <i>P</i> , 1956
Shaw, T I	Potassium movements in horse red cells (T) Potassium movements in washed erythrocytes $Lewis$ , $P$ , $R$ , $Lobban$ , $Mary$ $C$ and $Patterns$ of	120, 54 <i>P</i> , 1953 129, 464 1955
	urine flow in human subjects during a prolonged period of life on a 22 hr day	133, 659, 1956
SHAWE, G D H	Quilliam, $T$ $A$ and $T$ wo somatic nerves containing no non myelinated fibres	117, 20P, 1952
SHEFF, M F	and Smyth, D H An apparatus for the study of in vivo intestinal absorption in the rat	128, 67 <i>P</i> , 1955
"	Jervis, E Lesly, — and Smyth, D H Phlorhizin inhibition of glucose absorption in vivo	131, 16 <i>P</i> , 1956
,,	Jervis, E Lesly, Johnson, F R, —— and Smyth, D H The effect of phlorhizin on intestinal absorption and intestinal phosphatase	<b>134,</b> 675, 1956
SHELLEY, HEATHER J	Acetylcholine and ciliary movement in the gill plates of Mytilus edulis, the common mussel Bülbring, Edith, Kottegoda, S. R. and Cholin	118, 30 <i>P</i> , 19o2
	esterase activity in the auricles of the rabbit's heart and their sensitivity to eserine	<b>123</b> , 204, 1954
"	The inhibition of acetylcholine synthesis in guinea pig brain slices by eserine and neostigmine	131, 329, 1956
SHELTON, M	Booker, W M, DaCosta, Frances, Mitchell, S Q and Further studies on the effects of cortisone and its congeners on the intact and perfused heart	133, 45 <i>P</i> , 1956
SHEPARD, R H	Campbell, E J M, Enns, T, Martin, H B and Factors affecting the pulmonary dead space as determined by single breath analysis (T)	130, 57 <i>P</i> , 1955
SHEPHARD, R J	Observations on the use of Douglas bags (T) Respiratory responses to the inhalation of oxygen	123, 59P, 1954
	at atmospheric pressure in normal subjects and in cases of congenital heart disease	127, 498, 1955

Знернаво, R J "	A critical examination of the Douglas bag technique The carbon dioxide balance sheets of the body their determination in normal subjects and in	127, 515, 1955
	cases of congenital heart disease	129, 142, 1955
"	The immediate metabolic effects of breathing carbon dioxide mixtures	129, 393, 1955
"	Assessmenteof ventilatory efficiency by the single breath technique	134, 630, 1956
8нернеко, D М.	Hunter, R B, —— and West, G B Organs of Zuckerkandl and West, G B Hydroxytyramine (dopamine) and	116, 6 <i>P</i> , 1951
,,	the suprarenal medulla  Hunter, R. R., Macgregor, Agnes, R., —— and	117, 67P, 1952
	West G B The Organs of Zuckerkandl and the suprarenal medulla and West, G B Hydroxytyramine and the adrenal	118, 11 P, 1952
**	medulla	120, 15, 1953
8нернеко, J Т "	Finnan, E J and A combination of ergometry and plethysmography for investigating the circu lation through the leg muscles (T)  Greenfield, A D M and Measurement of the blood	118, 56 <i>P</i> , 1952
	flow in the umbilical cord of the foetal guines pig (T)	118, 56P, 1952
,	Greenfield, A D M, —— and Thompson, I D A class experiment on hand calorimetry (T)	118, 56 <i>P</i> , 1952
"	Greenfield, A D M and Cardiovascular reflexes in the foetal gumea pig	118, 68 <i>P</i> , 1952
,	Marshall, R J, — and Thompson, I D Vascular responses in persons with high serum titres of cold agglutinins  Duff, F Greenfield, A D M, — and Thompson, I D A quantitative study of the response to acetylcholine and histamine of the blood vessels	118, 69 <i>P</i> , 1952
"	of the human hand and forearm  Greenfield A D M and Cardiovascular responses	120, 160, 1953
,	to asphyxia in the foetal guinea pig  Duff, F, Greenfield, A D M, —, Thompson,  I D and Whelan, R F The response to vaso dilator substances of the blood vessels in fingers	120, 538, 1953
,	immersed in cold water $Duff$ , $F$ and The circulation in the chronically	121, 46, 1953
	denervated forearm  Patterson, G C and Vasoconstruction following venous congestion in normal, sympathectomized,	<b>122,</b> 25 <i>P</i> , 1953
	and denervated forearms  Barcroft, H. Gaskell P, —— and Whelan, R. F.	123, 76P, 1954
	The effect of noradrenaline infusions on the blood flow through the human forearm Patterson, G C and The blood flow in the human	133 445 30**
•	Duff, F Patterson G C and A quantitative study	125, 501, 1954
,	of the response to adenosine triphosphate of the blood vessels of the human hand and forearm Roddie, I C and A comparison of the blood flow through the hand during local heating, releas	125, 581, 1954
	of sympathetic vasomotor tone by indirect heating and a combination of both	t 129, 23 <i>P</i> , 1955

SHEPHERD, J T	Roddie, I. C., — and Whelan, R. F. The effects of 5 hydroxytryptamine on the peripheral blood	[
"	vessels of the human subject  Roddie, I C, —— and Whelan, R F A photo metric method for the rapid measurement of	<b>130,</b> 8 <i>P</i> , 195 <sub>0</sub>
"	blood oxygen saturation and capacity $Roddse, I \ C \ and \ The increase in forearm blood$	131, 2P, 1956
"	flow in response to raising the legs (T)  Roddie, I C and The blood flow through the hand during local heating, release of sympathetic vaso	<b>131,</b> 23 <i>P</i> , 1956
	motor tone by indirect heating, and a combination of both	131, 657, 1956
"	Roddie, I C, — and Whelan, R F The effect of heating the legs and of posture on the blood flow through the muscle and skin of the human	
**	forearm  Roddie, I C, —— and Whelan, R F The effect on	132, 47P, 1956
	the blood flow through the muscle and the skin of the forearm of infiltration of the motor nerves with local anaesthetic solution	132, 65 <i>P</i> , 1956
"	Roddie, I C, — and Whelan, R F The similarity of the vasomotor and sudomotor effects in the skin of the forearm of infiltrating the cutaneous	<b>202,</b> 222,
	or the motor nerves with local anaesthetic solution	<b>132,</b> 66 <i>P</i> , 1956
,,	Roddie, I C, —— and Whelan, R F Sympathetic cholinergic fibres producing vasodilatation in forearm skin	134, 13 <i>P</i> , 1956
"	Roddie, I C, — and Whelan, R F Evidence from venous oxygen saturation measurements that the increase in forearm blood flow during body heating is confined to the skin	<b>134</b> , 444, 1956
SHEPHERD, W H T	Duff, F, — and Whelan, R F The effect of adrenalme infusions into the carotid and verte bral arteries on the respiration in man	125, 62 <i>P</i> , 1954
SHERWOOD, S L	Feldberg, W and A permanent cannula for intra	120, 3 <i>P</i> , 1953
,,	Feldberg, W and Intraventricular injections of acetylcholine and of 5 hydroxytryptamine (sero tonin) into the conscious cat	120, 12 <i>P</i> , 1953
**	Feldberg, W and A method for injection of drugs into the lateral ventricle of the cat (Film) (T)	122, 10P, 1953
**	Feldberg, W and Injections of drugs into the lateral ventricle of the cat  Feldberg, W and Injections of DFP into the	<b>123,</b> 148, 1954
**	cerebral ventricle of the cat (Film) (T)  Feldberg W and Behaviour of cats after intra	123, 69P, 1954
,	ventricular injections of eserine and DFP $Feldberg$ , $W$ , $Malcolm$ , $J$ $L$ $and$ $A$ method of	<b>125,</b> 488, 1954
	studying the actions of drugs injected intra- ventricularly on evoked responses in the cortex and mid brain of the cat (T)	128, 3 <i>P</i> , 1955
,,	Lister, W and A lightweight stereotaxic instrument for man, monkey and cat (T) Feldberg, W, Malcolm, J L and Some effects of	128, 3 <i>P</i> , 1955
"	tubocurarine on the electrical activity of the cat's brain	<b>132</b> , 130, 1956

SHILLINGFORD, J P	Müller, O and A manometer for differential and single pressure measurements	127, 2 <i>P</i> , 1954
Seipton, H. W	Grey, Walter W and A twelve-channel transportable toposcope	124, 51 P, 1954
SHOENBERG, KATE	Anand, B K, Dua, S and Hypothalamic control of food intake in cats and monkeys	127, 143, 1955
SHOLL, D A.	The organization of the visual cortex in the cat	124, 23P, 1954
SHORT, D J	Parkes, A S, — and Sutton, C D The care of experimental animals (T)	117, 2P, 1952
Shuster, S	Eggleton, M Grace and Excretion of glucose by the cat's kidney Eggleton, M Grace and Glucose and phosphate	122, 54P, 1953
,	excretion in the cat  Eggleton, M. Grace and The effect of insulin on the	124, 613, 1954
,	excretion of glucose and phosphate by the kidney of the cat  Dempster, W J, Eggleton, M Grace and The effect of hypertonic infusions on glomerular filtration of the case replacements in the laders of the	124, 623 1954
	rate and glucose reabsorption in the kidney of the dog	132, 213, 1956
Sidhu G S	Agar, $W$ $T$ , $H$ $G$ $F$ $J$ $R$ and $T$ $H$ $G$ active absorption of ammo acids by the intestine	<b>121,</b> 255, 1953
SIDLOFSKY SAUL	Lax, Louis C, —— and Wrenshall Gerald A Compartmental contents and simultaneous transfer rates of phosphorus in the rat	132, 1, 1956
Sidman R L	Barer $R$ and The absorption spectrum of rhodops in solution and in intact rods	129, 60 <i>P</i> , 1955
Silk, Elsie	Lehmann, H and Benzovlcholine as a muscle relaxant	122, 76P, 1953
Silver, Ann	Hebb, Catherine O and Choline acetylase in the central nervous system of man and some other mammals	134, 718 1956
SILVER I A.	Mvoepithelial cells in the mammary and parotid	
,	glands  Cater D B Phillips, A F and Measurement of oxidation reduction potentials and pH of tissues	125 8P 1954
	in tito  Vascular changes in the mammary gland during	120 22 P 10==
,	engorgement with milk	133, 65 <i>P</i> , 1956
SILVER, MARIAN	The output of adrenalme and noradrenalme from the adrenal glands of the calf	125, 45P, 1954
SILVER, P H. S	Floyd W F and Comparative ments of ink- writer and cathode ray oscillographs for electro myography	•
	Floyd, W F and Electromvography of the erectores spinae muscles in flexion of the lumba	117, 36P, 1952
	vertebrae (Film) (T)  Floyd W F and The function of the erectore spinse muscles in certain movements and postures in man	119, 41 P, 1952 s
Smors J R	Blood flow through the conus arteriosus of the fro	129 184, 1955
	(T)	131 27P 1956

#### JOURNAL OF PHYSIOLOGY

	Conway, H, Methle, R W and Tubeless gastric analysis	121, 41 P, 19o3
,,	Depressed conduction velocity in peripheral nerves with lesions in continuity (T)	130, 38 <i>P</i> , 1955
Sims, A L	Barry, W L, Peterson, J M and A sensitive single cell absorptiometer unaffected by voltage changes in current supply (T)	
Sinclair, D C	Lele, P P, —— and Weddell, G The reaction time to touch	<b>123,</b> 187, 1954
SINCLAIR, H M	Basnayake, $V$ and Skin permeability in deficiency of essential fatty acids	126, 55 <i>P</i> , 1954
**	Buxton, Joyce, Mayer, Agnes and Histamine levels in the pyridoxin deficient rat	131, 17 <i>P</i> , 1956
Singh, I D	Barclay, J A and The demonstration of enzyme activity in the glomerulus by neotetrazolium Barclay, J A and The isolated glomerulus	126, 9 <i>P</i> , 1954 126, 53 <i>P</i> , 1954
SINHA, Y K	Alcasu, A, —— and West, G B Acetylcholine and benzoylcholine	117, 41 <i>P</i> , 1959
**	and West, G B The antagonism between local anaesthetic drugs and 5 hydroxytryptamine	120, 64 <i>P</i> , 1953
Sircus, W	Card, $W$ $I$ , $Marks$ , $I$ $N$ $and$ Observations on achlorhydria	130, 18 <i>P</i> , 1955
SLACE, H. G B	Jackson, D S, Kellgren, J H, ——and Williams, G A biochemical and histological study of local connective tissue proliferation following subcutaneous injection, into guinea pigs, of carrageenin, a sulphated polygalactose (T)	<b>132,</b> 54 <i>P</i> , 1956
SLOAN, A W	and Wishart, Mary The relationship of the physic logical third heart sound to the rate of venous return of blood to the human heart	116, 7 <i>P</i> , 1951
"	and Wishart, Mary A device for recording the	
	jugular phlebogram of the dog and Wishart, Mary Cardiac extra sounds in the dog	121, 25 <i>P</i> , 1953 122, 135, 1953
,,	and Wishart, Mary Cardiac extra sounds in the dog	
"SMAILMAN, B N	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly	122, 135, 1953
,, Smallman, B N	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow	122, 135, 1053 129, 13 <i>P</i> , 1955
SMALLMAN, B N	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine	122, 135, 1053 129, 13 <i>P</i> , 1955 132, 343, 1956
SMALLMAN, B N	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine in insects Hebb, Catherine, O and Intracellular distribution	122, 135, 1053 129, 13 <i>P</i> , 1055 132, 343, 1956 134, 241, 1956 134, 385, 1956 118, 6 <i>P</i> , 1052
"SMALLMAN, B N " "	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine in insects Hebb, Catherine, O and Intracellular distribution of choline acetylase Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T) Compound 48/80 and acid gastric secretion	122, 135, 1053 129, 13 <i>P</i> , 1055 132, 343, 1956 134, 241, 1956 134, 385, 1958
SMALLMAN, B N " " " SMIRK, F H	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine in insects Hebb, Catherine, O and Intracellular distribution of choline acetylase Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T)	122, 135, 1053 129, 13 <i>P</i> , 1055 132, 343, 1956 134, 241, 1956 134, 385, 1956 118, 6 <i>P</i> , 1052
SMALLMAN, B N  " " SMIRK, F H SMITH, A N	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blowfly Lewis, S E and The estimation of acetylcholine in insects  Hebb, Catherine, O and Intracellular distribution of choline acetylase  Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T)  Compound 48/80 and acid gastric secretion  The effect of compound 48/80 on acid gastric secretion in the cat  Release of histamine by the histamine liberator compound 48/80 in cats	122, 135, 1053 129, 13 <i>P</i> , 1055 132, 343, 1956 134, 241, 1956 134, 385, 1956 118, 6 <i>P</i> , 1052 117, 73 <i>P</i> , 1952
SMALLMAN, B N  " " " SMIRK, F H  SMITH, A N "	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine in insects Hebb, Catherine, O and Intracellular distribution of choline acetylase Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T) Compound 48/80 and acid gastric secretion The effect of compound 48/80 on acid gastric secretion in the cat Release of histamine by the histamine liberator compound 48/80 in cats Feldberg, W and Release of histamine by trypt amine and 5 hydroxytryptamine	122, 135, 1053 129, 13P, 1055 132, 343, 1956 134, 241, 1056 134, 385, 1956 118, 6P, 1052 117, 73P, 1952 119, 233, 1953 121, 517, 1953 122, 62P, 1953
SMALLMAN, B N  " " " SMIRK, F H SMITH, A N " "	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly  Lewis, S E and The estimation of acetylcholine in insects  Hebb, Catherine, O and Intracellular distribution of choline acetylase  Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T)  Compound 48/80 and acid gastric secretion  The effect of compound 48/80 on acid gastric secretion in the cat  Release of histamine by the histamine liberator compound 48/80 in cats  Feldberg, W and Release of histamine by trypt amine and 5 hydroxytryptamine  Gastrin and histamine rolease	122, 135, 1053 129, 13P, 1055 132, 343, 1956 134, 241, 1956 134, 385, 1956 118, 6P, 1052 117, 73P, 1952 119, 233, 1953 121, 517, 1953
SMALLMAN, B N  " " " SMIRK, F H SMITH, A N " "	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine in insects Hebb, Catherine, O and Intracellular distribution of choline acetylase Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T) Compound 48/80 and acid gastric secretion The effect of compound 48/80 on acid gastric secretion in the cat Release of histamine by the histamine liberator compound 48/80 in cats Feldberg, W and Release of histamine by trypt amine and 5 hydrovytryptamine Gastrin and histamine release Feldberg, W and The role of histamine release for	122, 135, 1053 129, 13P, 1055 132, 343, 1956 134, 241, 1956 134, 385, 1950 118, 6P, 1052 117, 73P, 1952 119, 233, 1953 121, 517, 1953 122, 62P, 1953 123, 71P, 1954
SMALLMAN, B N  " " SMIRK, F H SMITH, A N " " "	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine in insects Hebb, Catherine, O and Intracellular distribution of choline acetylase Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T) Compound 48/80 and acid gastric secretion The effect of compound 48/80 on acid gastric secretion in the cat Release of histamine by the histamine liberator compound 48/80 in cats Feldberg, W and Release of histamine by trypt amine and 5 hydrolytryptamine Gastrin and histamine release Feldberg, W and The role of histamine release for the motor effects of histamine liberators on the guines pig's floum preparation	122, 135, 1053 129, 13P, 1055 132, 343, 1956 134, 241, 1056 134, 385, 1956 118, 6P, 1052 117, 73P, 1952 119, 233, 1953 121, 517, 1953 122, 62P, 1953
SMALLMAN, B N  " " SMIRK, F H SMITH, A N " " "	and Wishart, Mary Cardiac extra sounds in the dog Acetylcholine synthesis in the blowfly Mechanisms of acetylcholine synthesis in the blow fly Lewis, S E and The estimation of acetylcholine in insects Hebb, Catherine, O and Intracellular distribution of choline acetylase Fastier, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T) Compound 48/80 and acid gastric secretion The effect of compound 48/80 on acid gastric secretion in the cat Release of histamine by the histamine liberator compound 48/80 in cats Feldberg, W and Release of histamine by trypt amine and 5 hydrovytryptamine Gastrin and histamine release for the motor effects of histamine liberators on the	122, 135, 1053 129, 13P, 1055 132, 343, 1956 134, 241, 1956 134, 385, 1950 118, 6P, 1052 117, 73P, 1952 119, 233, 1953 121, 517, 1953 122, 62P, 1953 123, 71P, 1954

PAI

Smith, Audrey U		123, 66 <i>P</i> , 1954
"	Parles, A S and Survival of isolated guinea pig uterus after freezing to -79°C in glycerol Ringer (T)	123, 67 <i>P</i> , 1954
,	Parles, A S and Development of functional grafts from frozen and thawed adrenal cortex	124, 61 P, 1954
**	Resuscitation of hypothermic, supercooled, and frozen mammals (Film) (T)	128, 1 <i>P</i> , 1955
•	Andjus, R K and Reanimation of adult rats from body temperatures between 0 and +2° C	128, 446, 1955
,	Goldzieig, S. A. and A simple method for ream mating ice-cold rats and mice	132, 406, 1956
Sмітн, А W М	Armstrong, H I O, Milton, G W and Electro potential changes of the small intestine Milton G W and The pacemaking area of the	131, 147, 1956
**	duodenum	132, 100, 1956
Sштн, С F	A bench episcope	125, 3P, 1954
Suith, D F G	Evans C Loratt and On sweating in the horse Evans, C Loratt —— and Weil Malherbe, H The adrenaline and noradrenaline of venous blood of	126, 45P, 1954
"	the horse before and after exercise  Evans, C. Lovatt, —— and Weil Malherbe, H. The relation between sweating and the catechol	128, 50 <i>P</i> , 1955
	content of the blood m the horse	132, 542, 1956
8лпн D W	Changes in fluid balance produced by varying the salt intake of adrenalectomized rats	119, 17 <i>P</i> , 1952
Sигтн, I С	Giant nerve fibres in Protopterus	129, 42P, 1955
SMITH, MARION C	A simple method for mapping the cerebellar surface (T)	123, 30 <i>P</i> , 1953
,	Ascending fibres within the region of the pyramidal tract $(T)$	123, 30 <i>P</i> , 1953
, Змутн, С Х	and Hawkins D F A servo regulated ink recorder for isolated smooth muscle preparations Regulation of body temperature in laboratory animals by a proportional temperature con	124, 8 <i>P</i> , 1954
71	troller (T)  and Myerscough, P R A syringe pressure trans	124, 9P, 1954
SMYTH, D H.	ducer used to record intra uterine pressures  Crampton, R F and Renal clearance of the	124, 10 <i>P</i> , 1954
•	stereoisomers of alanine and methionine in the	
n	Matthews, D M and Stereochemically specific absorption of alanine from the intestine into the	116, 19 <i>P</i> , 1951
,	Gibson Q H and Conversion of D methioning to	116 00 D 2052
	and Whaler B C Apparatus for the in intra study	***
	and Whaler B C Comparison of the absorption	101 000 10-0
	capacities of the intestine and kidney  Matthews, D M and The effect of temperature or the rate of transference of D L-alanine through	121 15 <i>P</i> , 1953
,	the intestinal wall  Crampton, R F and The excretion of the enantio  morphs of amino acids	***
12		122, 1, 1953

Simpson, J A	Conway, H, Meille, R W and Tubeless gastric analysis	121, 41 <i>P</i> , 19 <sub>0</sub> 3
,,	Depressed conduction velocity in peripheral nerves with lesions in continuity (T)	130, 38 <i>P</i> , 1955
Sims, A L	Barry, W L, Peterson, J M and A sensitive single cell absorptiometer unaffected by voltage changes in current supply (T)	119, 21 <i>P</i> , 1952.
SINCLAIR, D C	Lele, P P, —— and Weddell, G The reaction time to touch	123, 187, 1954
SINCLAIR, H M.	Basnayake, $V$ and Skin permeability in deficiency of essential fatty acids	<b>126,</b> 55 <i>P</i> , 1954
,,	Buxton, Joyce, Mayer, Agnes and Histamine levels in the pyridoxin deficient rat	131, 17 <i>P</i> , 1956
Singh, I D	Barclay, J A and The demonstration of enzyme activity in the glomerulus by neotetrazolium Barclay, J A and The isolated glomerulus	126, 9 <i>P</i> , 1954 126, 53 <i>P</i> , 1954
SINHA, Y K	Alcasu, A, — and West, G B Acetylcholme and benzoylcholme	117, 41 <i>P</i> , 195
,,	and West, G B The antagonism between local anaesthetic drugs and 5 hydroxytryptamine	120, 64P, 19o3
Sircus, W	Card, $W$ I, Marks, I N and Observations on achieving dria	130, 18 <i>P</i> , 19 <i>s</i> 5
SLACK, H G B	Jackson, D S, Kellgren, J H, —— and Williams, G A biochemical and histological study of local connective tissue proliferation following subcutaneous injection, into guines pigs, of car rageenin, a sulphated polygalactose (T)	132, 54 <i>P</i> , 1956
SLOAN, A W	and Wishart, Mary The relationship of the physio logical third heart sound to the rate of venous return of blood to the human heart	116, 7 <i>P</i> , 1951
,,	and Wishart, Mary A device for recording the jugular phlebogram of the dog and Wishart, Mary Cardiac extra sounds in the dog	121, 25 <i>P</i> , 19 <sub>0</sub> 3 122, 135, 19 <sub>0</sub> 3
SMALLMAN, B N	Acetylcholine synthesis in the blowfly	129, 13P, 19o5
"	Mechanisms of acetylcholine synthesis in the blow fly	<b>132,</b> 343, 1956
,,	Lewis, S E and The estimation of acetylcholine in insects	<b>134,</b> 241, 1956
,,	Hebb, Catherine, O and Intracellular distribution of choline acety lase	<b>134,</b> 385, 1956
SMIRK, F H	Faster, F N and Nature of ventricular flutter induced by amarin and adrenaline (Film) (T)	118, 6P, 1952
SMITH, A N	Compound 48/80 and acid gastric secretion	117, 73 <i>P</i> , 1952
"	The effect of compound 48/80 on acid gastric secretion in the cat	119, 233 1953
"	Release of histamine by the histamine liberator compound 48/80 in cats	121, 517, 1953
"	Feldberg W and Release of histamine by trypt amine and 5 hydroxytryptamine	122, 62 <i>P</i> , 1953 123, 71 <i>P</i> , 1954
"	Gastrin and histamine release  Feldberg W and The role of histamine release for	120, 122,
,,	the motor effects of histamine liberators on the guinea pig s ileum preparation	124 219 1954
"	Black, J. W., Fisher, E. W. and The effect of 5 hydroxytryptamine on gastric secretion	129 62P, 1955

Smith, Audrey U	Andjus, R K and Revival of hypothermic rate after arrest of circulation and respiration Parkes, A S and Survival of isolated guinea pig	123, 66 <i>P</i> , 1954
"	uterus after freezing to -79°C in givcerol Ringer (T)	123, 67 <i>P</i> , 1954
2)	grafts from frozen and thawed adrenal cortex	124, 61 <i>P</i> , 1954
,	Resuscitation of hypothermic, supercooled, and frozen mammals (Film) (T)	128, 1 <i>P</i> , 1955
**	Andjus, R K and Reanimation of adult rats from body temperatures between 0 and +2° C	128, 446, 1955
,	Goldzerg, S. A. and A simple method for ream mating ice cold rats and mice	132, 408, 1956
Smith, A W M	Armstrong, H I O, Milton, G W and Electro potential changes of the small intestine	131, 147, 1956
23	Milton, G W and The pacemaking area of the duodenum	132, 100, 1956
SMITH, C F	A bench episcope	125, 3P, 1954
SMITH, D F G	Evans, C Lovatt and On sweating in the horse	126, 45P, 1954
,,	Evans, C Lovatt, —— and Weil Malherbe, H The adrenaline and noradrenaline of venous blood of the horse before and after exercise	128, 50 <i>P</i> , 1955
,,	Evans, C Lovatt, —— and Weil Malherbe, H The relation between sweating and the catechol content of the blood in the horse	132, 542, 1956
SMITH D W	Changes in fluid balance produced by varying the salt intake of adrenalectomized rats	119, 17 <i>P</i> , 1952
SMITH, I C	Giant nerve fibres in Protopterus	129, 42P, 1955
Smith, Marion C	A simple method for mapping the cerebellar surface (T)	123, 30 <i>P</i> , 1953
1	Ascending fibres within the region of the pyramidal tract (T)	123, 30 <i>P</i> , 1953
8мутн, С N	and $Hawkins D F$ A servo regulated ink recorder	
21	for isolated smooth muscle preparations  Regulation of body temperature in laboratory animals by a proportional temperature con-	124, 8 <i>P</i> , 1954
	troller (T)	124, 9P, 1954
"	and Myerscough, P R A syringe pressure trans- ducer used to record intra uterine pressures	124, 10 <i>P</i> , 1954
SMYTH, D H.	Crampton, R F and Renal clearance of the stereosomers of alanine and methionine in the	
**	cat Matthews, D M and Stereochemically specific	116, 19 <i>P</i> , 1951
	absorption of alanine from the intestine into the	
,	blood stream $Gibson \ Q \ H \ and \ Conversion \ of \ D \ methionine to$	116, 20P, 1951
**	L methionine in isolated tissues and Whaler, B.C. Apparatus for the in vitro study	119, 7P, 1952
"	of intestinal absorption and Whaler B C Comparison of the absorption	131 9 D 1000
,	capacities of the intestine and kidney  Matthews D M and The effect of temperature on	121, 15 <i>P</i> , 1953
	the rate of transference of D L-alanme through	1
,	Crampton R F and The excretion of the enantic	122, 76P, 1953
72	morphs of amino acids	122, 1, 1953

12

Smyth, D H.	Polaroid lantern slides for class demonstration of heterophoria	f <b>123</b> , 53 <i>P</i> , 1954
"	Gibson, Q H, Newey, H, —— and Whaler, B C Synthesis of L alanine and L leucine from their	,
,,	unnatural enantiomorphs and $Taylor$ , $C$ $B$ $Transport$ of water and other sub	125, 65 <i>P</i> , 1954
,	stances through the intestinal wall  Matthews, D M and The intestinal absorption of	126, 42P, 1954
**	amino acid enantiomorphs  Hyndman, S H and A new type of visual aid for	126, 96, 1954
	demonstration of comparisons or of rhythmic processes	
,,	Hyndman, S H and Some polarized trans parencies and lantern slides of physiological	400 00 D 10FF
"	interest (T) and Taylor, $C$ $B$ An in vitro technique for the	128, 66 P, 1955
,,	study of water transport in the intestine (T)  Sheff, M F and An apparatus for the study of	<b>128</b> , 66 <i>P</i> , 1955
	in vivo intestinal absorption in the rat	128, 67P, 195a
,	and Taylor, C B The inhibition of water transport in the in vitro intestinal preparation	128, 81 P, 1955
,,	Newey, H, — and Whaler, B C The absorption of glucose by the <i>in vitro</i> intestinal preparation	129, 1, 1955
,,	and Taylor, C B The inhibition of glucose transport in the in vitro intestine by phlorrhizin	130, 11 <i>P</i> , 1955
,,	Jerus, E Lesly, Sheff, M F and Phlorhizm in hibition of glucose absorption in vivo	<b>131</b> , 16 <i>P</i> , 1956
,,	and Taylor, C B Effect of temperature on the rate of transfer of water by an in vitro intestinal	
	preparation	132, 9P, 1956
"	Jenner, F A and Effect of phlorhizin on bile glucose	133, 20 <i>P</i> , 1956
,,	Jerus, E Lesly, Johnson, F R, Sheff, M F and The effect of phlorhizm on intestinal absorption and intestinal phosphatase	134, 675, 1956
,,	Parsons, B J and The intestinal absorption of radioactive glucose	134, 7 <i>P</i> , 1956
SMYTHIES, J R	Cerebral synapses (T)	133, 35P, 1956
SNELL, E S	The relationship between the vasomotor response	
"	in the hand and heat changes in the body induced by intravenous infusions of hot or cold saline (T) Cranston, W I, Gerbrandy, J and The relation	123, 39 <i>P</i> , 1953
	ship between mouth, oesophageal and rectal temperature and the central mechanism regu- lating body temperature in man (T)	123, 39 <i>P</i> , 1953
,,	The relationship between the vasomotor response in the hand and heat changes in the body induced	<b>125</b> , 361, 1954
	by intravenous infusions of hot or cold saline Cranston, W I, Gerbrandy, J and Oral, rectal and	125, 301, 1001
,,	oesophageal temperatures and some factors affecting them in man	126, 347, 1954
Svell, R S	Nicol, T and The appearance of lipid in the vaginal smears of the guinea pig $(T)$	123, 2P, 1953
Söderberg, U	von Euler, C and Chemorecoptors in the respiratory centres	117, 30 <i>P</i> , 1952
"	von Euler, C and Medullary chemosensitive receptors	118, 545, 1952

Söderberg, U	von Euler, C and Slow potentials in the respiratory centres	118, 555, 1952
Soliman, A. A. I	McDowall, R J S and Sodium chloride and the	122, 42 <i>P</i> , 1953
,,	McDowall, R J S, —— and Wilson, A E The effect of low sodium on tachyphylaxis (T)	123, 2 <i>P</i> , 1953
"		125, 35P, 1954
"	Hughes, F Barbara, McDowall, R J S and Sodium chloride and smooth muscle	134, 257, 1956
Sollero, L	Chagas, C, Ferretra, H M and The utilization of acetylcholine during the discharge of Electro phorus electricus (T)	117, 9 <i>P</i> , 1952
Somerville, W	Effects of hypokalaemia on the electrocardiogram in man (T)	119, 52 <i>P</i> , 1052
Sosnowick, H.	The secretion of urea by the kidney of the labora tory rat	120, 11 <i>P</i> , 1953
SOWRY, G S C	Hamilton, M, Pickering, G W, Roberts, J A F and The relationship of arterial pressure to age in a sample of the general population (T)	<b>122,</b> 37 <i>P</i> , 1953
Speirs, R L	Jenkins, G N and Distribution of fluorine in human enamel	121, 21 P, 1953
Spencer, A. G	Franglen, G T, McGarry, Eleanor and Renai function and the excretion of potassium in acute alkalosis	<b>121,</b> 35, 1953
Spencer, K E V	Adam, $H$ $M$ and $A$ method for the estimation of histamine in plasma $(T)$	117, 32 <i>P</i> , 1952
Spinks, A.	Burn, J H and Thyroid hormone and amine oxidase in the liver Thyroid hormone and amine oxidase in blood	116, 46 <i>P</i> , 1952
Spira, J J	vessels  The function of the sphizeters of the alimentary	117, 35P, 1952
	canal	125, 27 P, 1954
Spoor, A.	Julof, Rensle, —— and de Vries, H The micro phonic activity of the lateral line	116, 137, 1952
Sprague, J M	Anatomical localization of excitation and inhibition of spinal motoneurones  D.A silver stain for the selective staining of degenerating axons and their terminal branches	133, 25 <i>P</i> , 1956
Spray, G H	in the central nervous system (T)  Reynell, P C and The simultaneous measurement	133, 35P, 1956
17	of absorption and transit in the gastro intestina tract of the rat Reynell, P C and The absorption of glucose by the intact rat	1 131, 452, 1956
Spurrell, W	R Macdonald, I and Sham feeding in man gray	134, 531, 1956
,	Macdonald, I and 'Sham feeding' with the pectumeal	
Squires B T	Human salivary amylase secretion in relation t	119, 259, 1953 o
Squires R D	Chalmers, T M and Observations on the rene response to motionless standing	
	and in the standing	122, 58P, 1953

100	OCCINING OF THIS CHOOL	
STACEY, R S	Hardistry, R M and The concentration of 5 hydroxytryptamine in human blood and its ab sorption by platelets	129, 24 <i>P</i> , 19 <sub>0</sub> 5
"	Hardistry, R M and 5 Hydroxytryptamine in normal human platelets	130, 711, 1955
,,	Red cells and 5 hydroxytryptamine	<b>132</b> , 39 <i>P</i> , 1956
	Cater, D B and The rate of decay of mitotic activity in the adrenal cortex of the rat fol lowing hypophysectomy	<b>127,</b> 265, 1950
"	Cater, D B and The time of onset of mitotic activity in the adrenal cortex of the hypophys ectomized rat following injections of growth hormone	<b>127,</b> 273, 1955
STANBURY, S W	Mills, J N and Persistent 24 hour renal excretory rhythm on a 12 hour cycle of activity	117, 22, 1952
,	Boucot, N G, Lumb, G A, Mahler, R F and The extrarenal buffering of acute respiratory alkalosis in man	132, 63 <i>P</i> , 1956
	ni man	102, 002, 1011
STANIER, J E	Ogston, A G and Elastoviscosity of synovial fluid (T)	118, 24P, 1952
"	Ogston, A G and The physiological function of hyaluronic acid in synovial fluid, viscous, elastic and lubricant properties	119, 244, 1903
"	Ogston, A G and Some effects of hyaluronidase on the hyaluronic acid of ox synovial fluid, and their bearing on the investigation of patho- logical fluids	119, 253, 1953
STANWORTH, A	Naylor, $E$ $J$ and The measurement of the Haddinger effect	123, 30 <i>P</i> , 1953
**	Naylor, E J and Retinal pigment and the Hai dinger effect	<b>124</b> , 543, 1954
,,	Naylor, $E$ J and Measurement and clinical use of the Haidinger effect $(T)$	132, 53 <i>P</i> , 1956
STAPLE, P H	Some tissue reactions following the administration of diphenylhydantoin ('dilantin') solution	117, 32 <i>P</i> , 1952
STAPLETON, T	Cranston, W $I$ , Sanderson, $P$ $H$ and The effects of acetazoleamide on $CO_2$ carriage in man	129, 71 <i>P</i> , 1955
STARK, L	del Castillo, J and The effect of calcium ions on the motor end plate potentials	116, 507, 1952
,,	del Castillo J and Local responses in single medullated nerve fibres	<b>118,</b> 207 1952
STARR, I	On the performance of certain physiological experiments at necropsy	133, 48 <i>P</i> , 1956
Steg, G	Granit R, Henatsch H D and Differentiation of tonic from phasic extensor motoneurones by post tetanic potentiation	133, 12 <i>P</i> , 1956
STEINBACH, H B	Harris, E J and Inexchangeable Na and K in frog	131, 20 <i>P</i> , 1956
**	Harris E J and The extraction of ions from muscle by water and sugar solutions with a study of the degree of exchange with tracer of the sodium and potassium in the extracts	<b>133,</b> 385, 1956
STEKIEL, W	Dolivo, $M$ , Horowicz $P$ Larrabee $M$ $G$ and Metabolic substrates in mammalian sympathetic ganglia	133, 52 <i>P</i> , 1956

# INDEX OF AUTHORS

	INDIA OF HOLLOW	
STEX KNUDSEN, O	The meffectiveness of the 'window field' in the initiation of muscle contraction	125, 396, 1954
STEVENS, J A.	Bond, Audrey M., Murray, Margaret M. and Direct titrimetric determination of fluorine in drinking waters	116, 18 <i>P</i> , 1951
Stewart, H. C	Campbell, Josephine, Hughes, W Howard and Influence of osmosis on gut response (T)	120, 22P, 1953
STEWART, J W	Armstrong, Desirée, Jepson, J B, Keele, C A, —— and Wilson, C W M The delayed pain of thermal burns (T) Armstrong, Desirée, Jepson, J B, Keele, C A and	128, 59 <i>P</i> , 1955
,	Activation by glass of pharmacologically active agents in blood of various species  Armstrong, Desirée, Jepson, J. B., Keele, C. A. and Activation of 'pre-active' human plasma to	129, 80 <i>P</i> , 1955
	produce a bradykinin like substance (T)	130, 33 <i>P</i> , 1955
STOKER, J B	and Stoler, S B The influence of blood platelets on phagocytosis	122, 71 <i>P</i> , 1953
"	and Stoker, S B Anti stress action of heparin on phagocytic activity of leucocytes (in vitro)	126, 51 <i>P</i> , 1954
STOKER, S B	Stoler, J B and The influence of blood platelets on phagocytosis Stoler J B and Anti stress action of heparin on	122, 71 <i>P</i> , 1953
***	phagocrtic activity of leucocytes (in vitro)	126, 51P 1954
STONE S L	Bromsulphalein removal rates in the cat and dog The enterohepatic circulation of bromsulphalem	119, 26 <i>P</i> , 1952 119, 27 <i>P</i> , 1952
STOVER, H B	Dexter, D and The role of the adrenal medulia in water diuresis in rats	118, 486, 1952
Strange Priscilla H.	A pitch defect associated with local loss of sensi	100 017 10-
"	tivity (T)  The sense of pitch and local increase in threshold  Intensity pitch dependence and its relation to the	128, 24 <i>P</i> , 1955 129, 225, 1955
•	threshold for high frequencies (T)  Pitch intensity dependence and its relation to the	131, 28 <i>P</i> , 1956
<b>5</b> -	threshold of hearing for high frequencies	134, 741 1956
Strangeways, Dorothy H	Lucas B G B and Variations in the appearance of the cells of the guinea pig brain after routine histological methods	118, 57 <i>P</i> , 1952
STRATMANN, C. J.	Causey G and The spread of failure of conduction in degenerating mammalian nerve Causey, G and The relative importance of the blood supply and the continuity of the axon in recovery after prolonged stimulation of mam	119, 45 <i>P</i> , 1952
	malian nerve  Causey, G and The spread of failure of conduction	120, 373, 1953
	in degenerating mammalian nerve  Causey G and Recovery of degenerating mam  malian nerve after prolonged stimulation	121, 215, 1953
STRAUB R W	Ritchie, J M and The after offerts of month.	123, 234 1954
,	stimulation on mammalian non-meduliated fibres  Ritchie, J. M and The effect of cooling on the size of the action potential of mammalian non- meduliated fibres.	
	meduliated fibres	134 712, 1956

STREETEN, D H P	and Vaughan Williams, E M Loss of cellular potassium as a cause of intestinal paralysis in dogs	118, 149, 1952
Strom, G	Buller, A J, Nicholls, J G and Spontaneous fluctuations of excitability in the muscle spindle of the frog	<b>122,</b> 409, 1953
STROUD, S W	Cass, Rosemary, Head, K. W., Riley, J. F.——and West, G. B. Heparin and histamine in mast cell tumours	125, 47 <i>P</i> , 1954
Styles, P	Buller, A, — and Tanner, J M Six channel cathode-ray recording apparatus (T)	<b>116,</b> 3 <i>P</i> , 1951
**	Cobbold, A F and An improved electromagnetic flowmeter	127, 1 <i>P</i> , 1954
SUGGESTIONS TO AUT	THORS	116, 1, 1952
Sutarman	and Thomson, $M$ $L$ A new technique for enumer ating active sweat glands in man	<b>117,</b> 51 <i>P</i> , 195°
SUTTON, C D	Parkes, $A$ $S$ , Short, $D$ $J$ and The care of experimental animals $(T)$	117, 2 <i>P</i> , 1952
SUTTON, G G	A versatile equipment for the study of subjects working in a closed loop control system	<b>132,</b> 7 <i>P</i> , 1956
Swan, A. A B	Hebb, Catherine, — and Walsh, E G Some ap plications of Koelle's method for the histo chemical demonstration of cholinesterase (T)	118, 5 <i>P</i> , 1952
"	Robertson, J. D., —— and Whitteridge, D. Increase in sensitivity of baroreceptors produced by anaesthetics	128, 6 <i>P</i> , 1955
"	Robertson, $J$ $D$ , —— and Whittendge, $D$ Effect of anaesthetics on systemic baroreceptors	131, 463, 1956
SWAN, H J C	and Wood, E H A method for the continuous de termination of total systemic blood flow in the dog by an indicator dilution technique	133, 44 <i>P</i> , 1956
SWANK, R L	Levy, S W and The effects of in vivo heparin on plasma esterase activity and lipaemia clearing	<b>123,</b> 301, 1954
"	Levy, S W and The esteratic and chylolytic properties of post-heparin plasma and their role in lipaemia clearing	<b>127,</b> 297, 1955
Sykes, A H	Further observations on reflex bearing-down in the fowl	128, 249, 1955
Symons, N B B	The distribution of ribonucleic acid and alkaline phosphatase in the developing tooth	130, 7 <i>P</i> , 1950
Talaat, M	Anrep, G V, Barsoum, G S and Release of histamine by the liver	<b>120,</b> 419, 1953
Talesnik, J	Perry, W L M and The effect of ganglionic blocking drugs on the cat's ciliary ganglion (T)	117, 2 <i>P</i> , 1952
,,	Feldberg, W and Histamine recovery in the rat's and dog s skin	117, 3P, 1952
,,	Schachter, M and The release of histamine by egg white in non sensitized animals	118, 258, 1952
,,	Perry, W L M and The role of acetylcholine in synaptic transmission at parasympathetic ganglia	119, 455, 1953
,,	Feldberg, W and Reduction of tissue histamine by compound 48/80	<b>120,</b> 550 1953

## INDEX OF AUTHORS

TANNER, J M	Buller, A, Styles, P and Six channel cathode-ray	116, 3 <i>P</i> , 1951
>>	recording apparatus (T) Measurement of the human by standardized photo	116, 3 <i>P</i> , 1951
**	graphy (T)  Barcroft, H, Dornhorst, A C, McClatchey, H M  and On the action of the sympathetic on the the blood vessels in human muscle during	110, 01 , 1001
79	rhythmic exercise (T) Changes in the physique of ten young men during and after four months of weight-lifting training	116, 10 <i>P</i> , 1951
,	(T) Barcroft, H, Dornhorst, A C, McClotchey, H M and On the blood flow through rhythmically contracting muscle before and during release of	116, 27 <i>P</i> , 1951
,,	sympathetic vasoconstrictor tone Relation between age at puberty and adult	117, 391, 1952
"	physique in men  Healy, M J R, Lockhart, R D, MacKenzie, J,	127, 17P, 1954
"	and Whitehouse, R H The prediction of adult human body measurements from measure-	122 26 D 10=6
	ments taken from birth to five years	132, 36 <i>P</i> , 1956
TANSLEY,	Neutron cataract in a rabbit (T)	116, 46P, 1952
KATHARINE	The visual receptors of the bleak (T)	117, 54P, 1952
**	The retinal structure of Xenopus (T)	118, 18 <i>P</i> , 1952
77	Parry H B, —— and Thomson, L C The electro retmogram of the dog	120, 28, 1953
•	Retina of squirrel (T)	125, 15P, 1954
77	Arden, G B and The electro retinogram of the squirrel (T)	125, 30 <i>P</i> , 1954
"	Arden, G B and The spectral sensitivity of the pure cone retins of the grey squirrel (Sciurus carolinensis leucotis)	127, 592, 1955
>>	Arden, G B and The spectral sensitivity of the pure-cone retina of the souslik (Citellus citellus)	
"	Dobrowolski, J. A., Johnson, B. K. and The spectral absorption of the photopyment of Xenopus laeve measured in single rods	130, 225, 1955
Tappin, J W	Seymour, J., and Stria vascularis in the cochlea of	130, 533, 1955
Taraki, I	the living animal (T)  Maruhashi, J, Mizuguchi, K and Action currents in single afferent nerve fibres elicited by stimu	119, 34 <i>P</i> , 1952
	lation of the skin of the toad and the cat  Kobayashi, Y, Oshima, K and Analysis of afferent  and efferent systems in the muscle nerve of the	117, 129, 1952
	toad and cat	117, 152, 1952
TAUROG A.	Harris G W,——and Tong, W The uptake of all labelled thyroxine and truodothyronine by the neurohypophysis (T)	120 (07)
TAVERNER D	The action of drugs on the cord dorsum potentials in the cat (T)	129, 43P, 1955
**	The action of eserme sulphate on the spinal cord of the cat	
TAYLOR, C B	Smyth, D H and Transport of water and all	122, 72P, 1953
,,	Smyth, D H and An in trim tachnisms f	4.2
	study of water transport in the intestine (T)	128, 66P, 1955

Taylor, C B	Smyth, $D$ $H$ The inhibition of water transport in the in vitro intestinal preparation	<b>128,</b> 81 <i>P</i> , 1900
"	Smyth, D. H. and The inhibition of glucose transport in the in vitro intestine by phlorrhizin	<b>130,</b> 11 <i>P</i> , 195ə
"	Smyth, D H and Effect of temperature on the rate of transfer of water by an in vitro intestinal preparation	132, 9 <i>P</i> , 1956
TAYLOR, D W	Effects of vitamin E deficiency on oxygen toxicity in the rat	<b>121,</b> 47 <i>P</i> , 1953
,,	Effects of high oxygen pressures on adrenalecto mized, treated and untreated rats	<b>125,</b> 46 <i>P</i> , 1954
,,	Cardiac function in rats exposed to high oxygen pressures (T)	128, 23 <i>P</i> , 1955
,,	Effects of vitamin E deficiency and of methylene blue on oxygen toxicity in the rat	<b>129,</b> 62 <i>P</i> , 1955
"	The effects of vitamin E and of methylene blue on the manifestations of oxygen poisoning in the rat	131, 200, 1956
TAYLOR, G W	Kinmonth, J B and Spontaneous rhythmic contractility in human lymphatics (Film)	133, 3 <i>P</i> , 1956
TAYLOR, M G	Hale, J F, McDonald D A, — and Womersley, J R The counter chronometer method for re cording pulse wave velocity	<b>129,</b> 27 <i>P</i> , 1955
"	The use of an equivalent circuit in the analysis of the arterial pulse	130, 20 <i>P</i> , 1955
17	McDonald, D A and An investigation of the arterial system using a hydraulic oscillator	133, 74 <i>P</i> , 1956
Taylor, N.B G	Noble, R L and Antiduretic substances in human urine after haemorrhage, fainting, dehydration and acceleration	122, 220, 1953
TAYLOR, P F	Phipps L W, Renbourn, E T and The measure ment of relative humidity and vapour pressure near the skin	<b>127,</b> 46 <i>P</i> , 1955
"	Brown, J R and Circulatory reactions to postural change as an index of heat stress	127, 55P, 1955
TAYLOR, R E	Huxley, A F and Activation of a single sarcomere	130, 49P, 1955
TAYLOR, S H	Bishop, J M, Donald, K W, —— and Wormald, P N Effects of supine leg exercise on the splanchine A-V oxygen difference in normal subjects	<b>133,</b> 9 <i>P</i> , 1956
"	Bishop J M, Donald, K W, —— and Wormald, P N Blood flow changes in the resting arm during supine leg exercise in normal subjects	133, 60 <i>P</i> , 1956
TAYLOR, W A	An apparatus and method for mhalation anaesthesia in rabbits (T)	121, 39 <i>P</i> , 1953
TAYLOR, W H	Parry, H B and Renal clearances of creatinine and p amino hippurate in normal pregnancy and toxaemia of pregnancy in the sheep	127, 54 <i>P</i> , 1955
"	Parry H B and Renal function in sheep during normal and toxaemic pregnancies	<b>131,</b> 383, 1956
TERROUX, KATHLEEN G	Burgen, A S V and The membrane resting and action potentials of the cat auricle	119, 139, 1953
"	Burgen, A S V and On the negative motropic effect in the cat's auricle	120, 449 1953
THIEBLOT, L	Inhibitory effects of pineal extracts of gonado trophic pituitary functions (T)	126, 37P, 1954

Tincklee, L F	Gould D W, Hsich, A C L and The behaviour of the isolated water buffalo ureter Gould, D W, Hsich, A C L and The behaviour of the intact ureter in dogs, rabbits and rate Gould, D W, Hsich, A C L and The effect of posture on bladder pressure	129, 425, 1955 129, 436 1955 129, 448, 1955
Their, H.	Alsoy M, Bird, G W G, Lehmann, H, Mourant, A E, — and Wichremasinghe, R L Haemo globin E in Asia	130, 56 <i>P</i> , 1955
Thomas, G A	Macdonald I and Hepatic fibrosis produced with a fat free diet	131, 25 <i>P</i> , 1956
Thomas, J G	A method for continuously indicating blood pressure	129, 75 <i>P</i> , 1955
THOMAS J P D	and Todd, C A simple method of recording re- peated histamine-induced bronchospasm in the anaesthetized guinea pig	127, 29 <i>P</i> , 1954
Thomas S	Mills, $J$ $N$ and Reappearance of renal excretory rhythms after forced disruption Longson, $D$ , Mills, $J$ $N$ , —— and Yates, $P$ $A$	121, 14 <i>P</i> , 1953
	Tubular maxima for phosphate reabsorption in man (T)  Mills J N —— and Yates, P A Reappearance	125, 66P, 1954.
	of renal excretory rhythm after forced disruption Excretion of electrolytes during a water diuresis (T) Mills J N —— and Yates, P A Assessment of	125, 466 1954 128, 84 <i>P</i> , 1955
77	voluntarv bladder emptving in man	129, 408, 1955
n n	Mills, J. N. and The influence of cortisone upon the distribution of phosphate in man Longson D. Mills, J. N., —— and Yates, P. A.	131, 9P 1956
,	Handling of phosphate by the human kidney at high plasma concentrations Renal adjustments to change in posture	131, 555, 1956 132 61 <i>P</i> 1956
THOMPSON I D	Clarke R S J Duff F and Direct recording of arternal blood pressure in man Greenfield A D M, Shepherd J T and A class	118, 55P, 1952
**	experiment on hand calorimetry (T)  Marshall, R J Shepherd J T and Vascular responses in persons with high serum titres of	118, 56P 1952
	cold agglutumns  Duff, F Greenfield A D M and The response to sectvicholme and histamine of the blood vessels	118, 69 <i>P</i> , 1952
	of the human hand and forearm (T)  Duff, F, Greenfield A D M Shepherd, J T and A quantitative study of the response to acetyl	118, 69P, 1952
	choline and histamine of the blood vessels of the human hand and forearm  Duff F Greenfield A D M, Shepherd, J T —— and Whelan, P F The response to vasodi lator substances of the blood vessels in finger	120, 160, 1953 ,
	unmersed in cold water  Gibson Q H Greenfield, A D M and A simpl gas analysis apparatus for student use	121, 46, 1953 e
Тпомрясь Ј ј	E and Vanc, J R Gastric secretion induced by histamine and its relationship to the rate of	122, 7 <i>P</i> 1953
	blood flow	121, 433 1953

Тномряом, J W	Paton, W D M and The muscles retracting the cat's nictitating membrane (T)	120, 55 <i>P</i> , 1953
,,	and Paton, W D M Depression of nervous conduction by sympathomimetic amines (T)	<b>124</b> , 9 <i>P</i> , 1954
,,	The cat's nictitating membrane as an isolated preparation	129, 70 <i>P</i> , 1955
"	The cat nictitating membrane as an isolated pre- paration (T)	130, 6 <i>P</i> , 1955
,,	Murray, J G and Regeneration by collateral sprouting in the partially denervated superior cervical ganglion of the cat	131, 32 <i>P</i> , 1956
THOMPSON, R H S	Armin, J, Grant, R T, —— and Tickner, A An explanation for the heightened vascular reactivity of the denervated rabbit's ear and Tickner, A Cholinesterase activity of arteries	121, 603, 1953 121, 623, 1953
THOMSON, A M P	Intraventricular conduction in the human heart	121, 52P, 1953
THOMSON, L C	Localization of function in the rabbit's retina by an electro physiological method (T)	117, 64P, 195°
"	Inhibition of activity in single fibres of the rabbit's optic nerve (T)  The localization of function in the rabbit retina	118, 61 P, 1952 119, 191, 1953
"	The effect of light adaption on the size of receptive fields in the rabbit retina (T)	120, 6P, 1953
**	Parry, H B, Tansley, Katharine and The electro retinogram of the dog	120, 28, 1953
**	Leithead, L A and Tape recording of spike potentials	126, 2 <i>P</i> , 1954
THOMSON, M L	Sutarman and A new technique for enumerating active sweat glands in man	<b>117,</b> 51 <i>P</i> , 1952
,,	A comparison between the number and distribu- tion of functioning ecorine sweat glands in Europeans and Africans	123, 225, 1954
**	Relative efficiency of pigment and horny layer thickness in protecting the skin of Europeans and Africans against solar ultraviolet radiation	<b>127,</b> 236, 1959
THRELFALL, C J	Barnes, $J$ $M$ , $Duff$ , $Janet\ I$ and $The\ behaviour\ of$ mammalian striated muscle in the presence of $2\ 4$ dimitrophenol	<b>130</b> , 585, 1955
Tickner, A	Armin, J, Grant, R T, Thompson, R H S and An explanation for the heightened vascular reactivity of the denervated rabbit s ear	<b>121</b> , 603, 1953
,,	Thompson, R H S and Cholinesterase activity of arteries	121 623, 1953
TITCHEN, D A	Comline, R S, Pomeroy, R W and Histological changes in the intestine during colostrum ab sorption	122 6P, 1953
"	Reflex contractions of the reticulum Inhibition of reflex contractions of the reticulum	122, 32 <i>P</i> , 1953 125, 25 <i>P</i> , 1954
TIZARD, J P M	Cross, A W, — and Trythall D A H The metabolism of new born infants breathing 15% oxygen	129, 69 <i>P</i> , 1955
Traczyk, S	Barer, R, House, J B, Ross, K F A and Applications of refractometry in haematology	120, 67P, 1953

Торд, С	Thomas, J P D and A simple method of re-	123, 77 <i>P</i> , 1954
"	cording repeated histamine induced broncho spasm in the anaesthetized guinea pig Franklin, K J, —— and Wise, M Some haemex	127, 29 <i>P</i> , 1954
11	effects (T)	128, 84P, 1955
Todd, J K.	Bishop, B, Garry, R C, Roberts, T D M and Control of the external sphincter of the anus in the cat	134, 229, 1956
Тон, С С	Assay of enteramine and substance P on intestinal preparations (T)	117, 2 <i>P</i> , 1952
"	Douglas, W W and The effect of 5 hydroxy tryptamine (serotonin) on respiration in the dog Feldberg, W and Distribution of 5 hydroxy	117, 71 P, 1952
"	tryptamine (serotonin, enteramine) in the wall of the digestive tract  Dalgliesh, C. E.,—and Work, T. S. Fractions	119, 352, 1953
"	tion of the smooth muscle stimulants present in extracts of gastro intestinal tract. Identification of 5 hydroxytryptamine and its distinction from substance P	120, 298, 1953
"	Douglas, W W and The respiratory stimulant action of 5 hydroxytryptamine (serotonin) in	
"	the dog  Humphrey, J H and Absorption of serotonin (5 hydroxytryptamine) and histamine by dog platelets	124, 311, 1953
•	Release of 5 hydroxytryptamine (serotonin) from the dog's gastro intestinal tract	124, 300, 1954 126, 248, 1954
,,	Release of 5 hydroxytryptamine (serotonin) and histamine from platelets by tissue extracts	133, 402, 1956
Томьмзоч, Ј D Т	N Bernstein, L, Harrison, R J and The sphincter above the diaphragm on the inferior vena cava of the common seal ( <i>Phoca vitulina</i> L)	123, 39 <i>P</i> , 1953
To\c, W	Harris, G W, Taurog, A and The uptake of <sup>121</sup> I-labelled thyroxine and truodothyronine by the neurohypophysis (T)	
Torks, R S	Some pharmacological properties of a series of sub- stituted ethylenediamines	129, 43 <i>P</i> , 1955
Torr J B D	Dixon, A D and Sex differences in cell morpho logy (T)	119, 25 <i>P</i> , 1952
TORRANCE R W	Freeman, J and Respiratory responses of vago tomized cats (T)	132, 70 <i>P</i> , 1956
,	Holmes, R and Afferent fibres of the inferior cardiac nerve	
Towers, B	A modification of Masson's trichrome stain which differentiates in colour between striated and smooth muscle	
TRAUTWEIN, W	and Hutter, O F Vagal effects on the anus venosus of the frog's heart	100
"	Hutter, O F and Neuromuscular facilitation by stretch of motor nerve and nerve	
"	Hutter O F and Neuromuscular facilitation by stretch of motor nerve-endings	
	<b>.</b>	133, 610, 1956

TREGEAR, R T	Dorsal root reflex activity in frogs (T) Cord dorsum potentials in the spinal frog (T)	125, 14 <i>P</i> , 1954 129, 40 <i>P</i> , 1955
**	Lateral surface and dorsal root records compared in the frog spinal cord (T)	133, 35 <i>P</i> , 1956
Treherne, J E	The permeability of skin to some non electrolytes	<b>133,</b> 171, 1956
Trendelenburg, U	The potentiation of preganglionic impulses by hist amine and pilocarpine	<b>127, 35</b> <i>P</i> , 1954
	The potentiation of ganglionic transmission by histamine and pilocarpine	129, 337, 1955
,,	Modification of transmission through the superior cervical ganglion of the cat	<b>132,</b> 529, 1956
TRIBE, D E	McCrea, M R and The baby pig as a laboratory animal	124, 52 <i>P</i> , 1954
"	The self selection of purified food constituents by the rat during growth, pregnancy and lactation	124, 64 <i>P</i> , 1954
TROUNCE, J R	Robson, J M and The cardiac actions of an amino steroid	<b>129,</b> 10 <i>P</i> , 1955
TROWELL, O A	The action of cortisone on lymphocytes in vitro	119, 274, 1953
TRYTHALL, D A H	Cross, K W , Tward, J P M and The metabolism of new born infants breathing 15 % oxygen	129, 69 <i>P</i> , 1955
TUDHOPE, G R	and Wilson, $G$ $M$ A comparison of $^{86}\mathrm{Rb}$ , $^{32}\mathrm{P}$ and $^{51}\mathrm{Cr}$ as labels for red blood cells	<b>128</b> , 61 <i>P</i> , 1955
TUNBRIDGE, R E	$Hall, D \ A$ , $Reed, R \ and$ Morphological studies on normal and pathological connective tissue (T)	122, 69 <i>P</i> , 1953
TUPPER, R	, Watts, $R \ W \ E \ and \ Wormall$ , $A$ Observations on the zinc in the eggs of the domestic hen	119, 13 <i>P</i> , 1952
TYLER, CHRISTINE	Dicker, S E and Antidiuretic titre of plasma from the internal jugular vein of children	117, 28 <i>P</i> , 1952
"	Dicker, S E and The oxytocic and pressor factors of the pituitary gland of dogs, cats, rats and human foetuses	119, 51 P, 1952
,,	Dicker, S E and Estimation of the antidiuretic, vasopressor and oxytocic hormones in the pitui	
,,	tary gland of dogs and pupples  Dicker, S E and Vasopressor and exytocic activi	120, 141, 1953
	ties of the pituitary glands of rats, guinea pigs and cats and of human foetuses	121, 206, 1953
ULLMANN, ELISABETH A	The polyuria associated with anoxic anoxia Renal water and cation exerction at moderate	116, 3P, 1951
DESABETH 11	altitude	120, 58P, 1953
**	Currie J C M and Hyperpnoea and renal water excretion	129, 73P, 1955
Underwood C R	Houslip, R C and Electrical impedance of the Jason element as an index of atmospheric humidity (T)	127, 45 <i>P</i> , 1955
Underwood, R G	Barer, R and A simple photomultiplier photometer of high sensitivity (T)	126, 11 <i>P</i> , 1954
**	Barer R and Apparatus for time lapse cinemate graphy (T)	133, 6 <i>P</i> , 1950
Uncley, C C	Burstall, Pamela A, Cox, E V, Robson, J G, Ross D C, Schofield, B and The preparation of pyloric gastric pouches in pigs as a source of Castle's intrinsic factor	121, 3 <i>P</i> , 1953

	21,220	
Ungley, C C		<b>121</b> , 13 <i>P</i> , 1953
"	Cox, E V, Ross, G I M and Absorption of vitamin $B_{12}$ in man and animals (T)	121, 22 <i>P</i> , 1953
Vale, A. de T , Jr	Koelle, G B and Physiological implications of the histochemical localization of monoamine oxidase	126, 434, 1954
van de Berg, L	Bacq, $Z$ $M$ and Cysteamine and coronary output of the perfused rabbit's heart $(T)$	121, 56 <i>P</i> , 1953
van der Werff ten Bosch, J. J.	Donovan, B T and Cervical sympathetic system and light-induced oestrus in ferrets (T)  Donovan, B T and The cervical sympathetic	131, 13 <i>P</i> , 1956
"	system and light-induced cestrus in the ferret Donovan, B T and Oestrus in winter following	132, 123, 1956
<i>"</i>	hypothalamic lesions in the ferret	132, 57P, 1956
VANE, J R	Dawes, G S, Mott, Joan C and A flowmeter (T) Dawes G S, Mott, Joan C and The density flow	118, 24 <i>P</i> , 1952
"	meter, a direct method for the measurement of the rate of blood flow A new perfusion method	121, 72, 1953 121, 97, 1953
,	Thompson, J E and Gastric secretion induced by histamine and its relationship to the rate of blood flow	<b>121</b> , 433, 1953
**	Born, G V R and Gastric secretion induced by histamine	121, 445, 1953
>>	Dawes, G S and The refractory period of atria isolated from mammalian hearts	132, 611, 1958
1)	Paton, W D M and The excitation of nervous tissue in the isolated stomach in vitro by electrical stimulation, acetylcholine and histamine (T)	133, 77 <i>P</i> , 1956
van Heyningen, Ruth	and Weiner, J S A comparison of arm bag sweat and body sweat	116, 395, 1952
,	and Weiner, J S The effect of arterial occlusion on sweat composition	116, 404, 1952
Varagić, V	An isolated rabbit hypogastric nerve uterus pre- paration, with observations on the hypogastric transmitter	<b>132,</b> 92, 1956
Varley, H	Duncan, PR, Evans, DG, Harper, AA, Howat, HT, Oleesky, S, Scott, JE and The use of the cholecystokinetic agent in preparations of pan creozymin to study gall bladder function in man	
Vass, C C N	Cobbold, A F and Influence of noradrenalme on blood flow through skeletal muscle	121, 19 <i>P</i> , 1953 117, 12 <i>P</i> , 1952
	Cobbold, A F and Responses of muscle blood vessels to intra arterially and intravenously administered noradrenaline	•
VAUGHAN WILLI	AMS, Streeten, D H P and Loss of cellular potassium	120, 105, 1953
., E /l	Kuffler, S W and The slow fibres of frog skeletal	440
	Kuffer, S W and Small nerve junctional potentials The distribution of small motor nerves to frog skeletal muscle and the	120, 54P, 1953
	characteristics of the fibres they innervate	121, 289, 1953

	0007021222 02 22212102001	
Vaughan Williams, E M	Kuffer, S and Properties of the slow skeletal muscle fibres of the frog	<b>121, 3</b> 18, 1953
"	Burn, J H, —— and Walker, J M Production of auricular fibrillation by acetylcholme in the	
	heart-lung preparation when the heart is driven electrically (T)	126, 2P, 1954
"	The effect of acetylcholine on conduction velocity m isolated rabbit auricles	126, 3P, 1954
"	Burn, J. H., —— and Walker, J. M. Action of anticholinesterases and of acetylcholine on the electrically driven heart lung preparation	126, 43 <i>P</i> , 1954
"	Burn, J. H., —— and Walker, J. M. Production of auricular fibrillation by electrical stimulation of the heart-lung preparation in the presence of	
"	anticholinesterases  Marshall, Jean and The effects of low temperatures on the electrical and mechanical activity of the	128, 4P, 1950
"	isolated rabbit auricle  Burn, J H, —— and Walker, J M The effects of acetylcholine in the heart-lung preparation in	128, 4 <i>P</i> , 1956
	cluding the production of auricular fibrillation	128, 277, 1900
,,	Marshall, Jean and Pacemaker potentials in iso lated rabbit auricles at low temperatures (T)	129, 3P, 1955
,,	The individual effects of CO <sub>2</sub> , bicarbonate and pH on the electrical and mechanical activity of iso lated rabbit auricles	129, 90, 1955
"	Marshall, Jean M and Pacemaker potentials The excitation of isolated rabbit auricles by acetyl choline at low temperatures	<b>131</b> , 186, 1956
"	Burn, JH, — and Walker, JM The formation of acetylcholine in the heart its effect on the systemic output and its importance for auricular fibrillation caused by aconitine	131, 317, 1956
Vendrik, A J H	Groen, J J, Lowenstein, O and The mechanical analysis of the responses from the end organs of the horizontal semicircular canal in the isolated elasmobranch labyrinth	<b>117,</b> 329, 1952
VENTOM M G	Miles, B E, —— and de Wardener, H E Observations on the mechanism of circulatory autoregulation in the perfused dogs kidney	123, 143, 1 <sup>954</sup>
VERE, D W	A very small thermocouple with low stem errors	129, 1 <i>P</i> , 1955
Verel, D	Observations on the effect of posture on the distri- bution of tissue fluid in the face	130, 72, 1955
Vizoso, A D	del Castillo, J and The electrical activity of embryonic nerves	122, 33P, 1953
VOGT, MARTHE	Plasma adrenaline and release of ACTH in normal and demedullated rats	118, 588, 1952
**	Vasopressor, antidiuretic and oxytocic activity of the hypothalamus (T)	119, 11 <i>P</i> , 1952
"	The concentration of sympathin in different parts of the central nervous system under normal con- ditions and after the administration of drugs	<b>123</b> , 451, 1954
**	Holzbauer, Margarethe and Adrenalme estimations in peripheral blood during insulin hypogly caemia	125, 32P, 1954
"	The effect of hexoestrol on the secretion of corticosterone by the adrenal gland of the rat	128, 7 <i>P</i> , 1955

Voct, Marthe	tion in the rat	130, 601, 1955
•	Passonen, M K and The effect of drugs on the amounts of substance P and 5 hydroxytryptamine in mammahan brain	131, 617, 1956
rost, w	The chemical nature of Darmstoff	133, 64 <i>P</i> , 1956
voz Ecter, C	and Söderberg, U Chemoreceptors in the respira- tory centres	117, 30 <i>P</i> , 1952.
•	receptors	118, 545, 1952
,	and Stderberg, U Slow potentials in the respira- tory centres	118, 555, 1952
"	Brour-Grant, K., —, Harris, G W and Beichlin, S The measurement and experimental modification of the activity of the thyroid gland of the rabbit (T)	120, 59 <i>P</i> , 1953
,,	Brown-Grant, K., —— Harris, G W and Peichlin, S The measurement and experimental modification of thyroid activity in the rabbit and Ho'mgren, B The thyroxme 'receptor of	126 1, 1954.
,,	the thyroid pituitary system	131, 125, 1956
••	and Ho'moren B The role of hypothalamo hypophysial connexions in thyroid secretion	131, 137, 1956
705 Meralt, A.	and Zoterman, Y Anaesthetic action of anti- aneurins on sensory nerve endings	117, 64, 1952
Voca, V B	Kornal Krista and The influence of temperature on the acetylcholine output from a sympathetic ganglion	132, 239, 1956
Veies, H. de	see de Vries, H.	
WADDELL, J L	Brebner, D. F., Kerslale, D. McK. and The diffusion of water vapour through human skin.  Brebner, D. F. Kerslale, D. McK. and The relation between sweat rate and body temperature when	132 225, 1956
	heat loss is small	132, 17P, 1956
Wade, E G	Attree T and Simple amplifying circuit for use with a capacitance manameter (T)	132, 53P, 1956
31	Afree V and Pick up unit and amplifier for use with a ballistocardiographic table (T)	
Wade, O L	Studies on movements of the chest and diaphragm m normal subjects (T)	
27	Bishop J M Donald K W and Cardiac ontrod	119, 29 <i>P</i> , 1952
97	during exercise and recovery (Film) (I)  Bishop J M., Donald K W and Minute to minute changes in cardiac output by the direct	L
	Fick method in normal subjects during exercise	
**	Movements of the thoracic cage and diaphragm in	123 12 <i>P</i> 1953
"	respiration  Bradley S E, Clilds, A W., Combes, B Cournand A.,—and Wheeler, H O Effect of exercise on the splanchnic blood flow and splanchnic blood volume in normal man	124, 193, 1954 - -
Wadsworth, G	R Haemoglobin levels of people lumps and all	133, 9P, 1958 s 123 10P, 1953
,	Recovery from acute has morrhage in normal men	n.
	<del></del>	129, 583, 1955

Waites, G M H	Daly, I de Burgh, Linzell, J L, Mount, L E and Pulmonary vasomotor responses and acid base	
"	balance in perfused eviscerated dog preparations  Hebb, Catherine O and Choline acetylase in  antero and retro grade degeneration of a cholin	
	ergic nerve	132, 667, 1956
Wakelin, R W	Peters, R A and Fluorocitrate induced con vulsions in the pigeon (Film) (T) Hastings, A B, Peters, R A and A study of the	120, 45P, 1953
	influence of the inorganic ion environment on the convulsions induced in pigeons by fluorocitrate Peters, R A and Pyruvate oxidase system in brain	120, 50P, 19 <sub>0</sub> 3
,,	tissue	119, 421, 1953
WALDER, D N	The muscularis mucosae of the human stomach	120, 365, 1953
Walker, J M	Schofield, Brenda M and Perfusion of the coronary arteries of the dog (T)	118, 24 <i>P</i> , 195°
,,	Schofield, Brenda M and Perfusion of the coronary arteries of the dog	122, 489, 1953
**	Burn, J H and Anticholmesterases in the heart lung preparation	124, 489, 1954
"	Burn, J H, Vaughan Williams, E M and Production of auricular fibrillation by acetylcholine in the heart lung preparation when the heart is driven electrically (T)	126, 2 <i>P</i> , 1954
"	Burn, J H, Vaughan Williams, E M and Action of anticholinesterases and of acetylcholine on the electrically driven heart-lung preparation	126, 43 <i>P</i> , 1954
"	Bisset, G W and Assay of oxytocin in blood	126, 538, 195 <del>1</del>
"	Burn, J. H., Vaughan Williams, E. M. and Production of suricular fibrillation by electrical stimulation of the heart lung preparation in the presence of anticholinesterases  Burn, J. H., Vaughan Williams, E. M. and The	128, 4 <i>P</i> , 1955
"	effects of acetylcholine in the heart lung preparation including the production of auricular fibrillation  Burn, J. H., Vaughan Williams, E. M. and The	128, 277, 1955
<b>33</b>	formation of acetylcholine in the heart its effect on the systemic output and its importance for auricular fibrillation caused by aconitine  Burn J H and The effect of KCl on auricular	131, 317, 1956
	fibrillation produced by electrical stimulation in the presence of acetylcholine	131, 8 <i>P</i> , 1956
Walker, Mari Ann	Homogeneity tests on visual pigment solutions from two sea fish	133, 56P, 1956
WALKER, R MILNES	Eck's fistula in man	124 04P, 1954
WALL, P D	Howland B, Lettvin, J Y, McCulloch, W S, Pitts W and On microelectrodes for plotting currents in nervous tissue	122, 24 <i>P</i> , 1953
Wallace, A G	The effect of sodium lactate on a case of complete heart block (T)	130, 36P, 1955
Walls, E W	Fibro types in human gastrocnemius and solous muscles (T)	119, 34 <i>P</i> , 1952
"	Floyd, W F and Electromy ographic recording from the sphincter ani externus in man	119, 41 P, 1952

## INDEX OF AUTHORS

	- 4	
Valls, E W	Spinineter day entering	121, 49 <i>P</i> , 1953
11	Floyd, W F and Electromyography of the	122, 599, 1953
"	Studies on constancy of capillary pattern in the human nail fold (T)	130, 36P, 1955
Walsh, E G	A demonstration of a rhythm for teaching purposes —the advantages of using a tuned choke (T)  Hebb, Catherine, Swan, A B and Some appli	118, 5 <i>P</i> , 1952
"	cations of Koelle's method for the histochemical demonstration of cholinesterase (T) Visual reaction time and the a rhythm, an investigation of a scanning hypothesis	118, 5 <i>P</i> , 1952 118, 500, 1952
,,	'Visual attention' and the a rhythm	120, 155, 1953
WALTER, W GREY	A simple model to show excitation and propagation (T)	117, 54 <i>P</i> , 1952
,	Shipton, H W and A twelve channel transportable toposcope	124, 51 <i>P</i> , 1954
Walters, J H.	Edington, G. M., Lehmann, H. and Observations on haemoglobin C and G in West Africa (T)	<b>131,</b> 22 <i>P</i> , 1956
Walton, A	Dott, H M and Apparatus for studying semen metabolism and sperm motility under constant fluid perfusion and known gaseous partial	
,	pressures  Dott, H M and The measurement of sperm	122, 1P, 1953
,	motility in relation to metabolism	133, 30P, 1956
Wang, S C	A new concept of the organization of the central vomiting mechanism (T)	<b>116,</b> 10 <i>P</i> , 1951
WARDENER H E	DE see DE WARDENER, H E	
Ward McQuaid, J N	Daniel, P M, Prichard, Marjorie M L and An angiographic study of the effect of renin upon the renal circulation	124, 106, 1954.
Warnock, G M	Durnin, J V G, Garry, R C, Passmore, R and The expenditure of energy and the consumption of food by miners and by clerks, East Fife, Scotland	122, 54 <i>P</i> , 1953
Watanabe, A	Hagurara S and The effect of tetraethyl am monium chloride on the muscle membrane examined with an intracellular microelectrode	129, 513, 1955
Watrinson, G	Code, C F and The dependence of the inhibition of gastric secretion by acid in the duodenum upon vagal innervation  Code, C F and Importance of vagal innervation in the regulatory effect of acid in the	128, 39 <i>P</i> , 1955
Watson, D. A	duodenum on gastric secretion of acid  McDonald D A and Flow patterns in arteries	130, 233, 1955
	McDonald, D A and Cinematography (T)	116, 3 <i>P</i> , 1951
Watt, J A	movements of the rabbit heart (T)  Abrahams, V, Pickford, Mary and The effect on the urine flow of the dog of intracarotid injections of adrenaline and acetylcholine (T)	116, 3P, 1951
Watts, R W E	Tupper R —— and Wormall, A Observations on the zinc in the eggs of the domestic hen	
13	пен отнечения	119, 13P, 1952

### JOURNAL OF PHYSIOLOGY

Waine, E	Beswick, $F$ B and Tooth contact during chewing (T)	132, 53P, 1950
WEALE, R A	The photopic spectral sensitivity curve of a totally colour blind subject (T)	116, 52 <i>P</i> , 195°
,,	The central foveal sensitivity of a totally colour blind observer (T)	117, 64P, 195°
,,	Tapetal reflexion and its influence on some visual functions of the cat (T)	118, 43 <i>P</i> , 1952
,,	The spectral reflectivity of the cat's tapetum measured in situ	119, 30, 1953
,,	Spectral sensitivity and wave length discrimination of the peripheral retina	119, 170, 1953
**	Cone monochromatism	121, 548, 1953
,,	Slow and rapid regeneration in the living cat's retina	<b>122,</b> 11 <i>P</i> , 1953
,,	Arden, G B and Variations in the latent period of vision	122, 12 <i>P</i> , 1953
,,	Photochemical reactions in the living cat's retina	122, 322, 1953
"	Arden, G B and Cone and rod thresholds	123, 12P, 1953
**	A simple apparatus for measuring the Pulfrich effect	124, 2 <i>P</i> , 1954
"	Arden, G B and Nervous mechanisms and dark adaptation	<b>125,</b> 417, 1954
,,	Partial bleaching experiments on the retinae of anaesthetized guinea pigs (T)	<b>126</b> , 24 <i>P</i> , 1954
"	Further photochemical studies in vivo the grey squirrel (T)	127, 9P, 1954
,,	Bleaching experiments on eyes of living guinea pigs	<b>127</b> , 572, 1955
,,	Bleaching experiments on eyes of living grey squirrels (Sciurus carolinensis leucotis)	127, 587, 1955
,,	Observations on the direct effect of light on the irides of Rana temporaria and Xenopus laevis	132, 257, 1956
WEATHERALL, M	Comfort, A and Porphyrins from the urine of rabbits exposed to lead	119, 5 <i>P</i> , 1952
,,	Pardoe, A Ursula and Antidiuretic activity of extracts of the pituitary glands of lead poisoned rats	119, 16 <i>P</i> , 1952
,,	Joyce, C R B and Cardiac glycosides and the potassium exchange of human erythrocytes	127, 33P, 1954
,,	Pardoe, A Ursula and The intracellular localization of oxytocic and vasopressor substances in the pituitary glands of rats	127, 201, 195
WEBER, G	Method of study of intensity spectra and polarization of the fluorescence of solutions (T)	128, 68 <i>P</i> , 1955
WEDDELL, G	Lele, P P, Sinclair, D C and The reaction time to touch	123, 187, 1954
,,	Lete, P P, —— and Williams, C M The relation ship between heat transfer, skin temperature and cutaneous sensibility	<b>126,</b> 206, 1954
	•	118, 348, 1952
Weidmann, S	The electrical constants of Purkinjo fibres The effect of the cardiac membrane potential on	110, 010, 100
	the rapid availability of the sodium carrying system Effects of calcium ions and local anaesthetics on	127, 213, 1955
,,	electrical properties of Purkinje fibres	129, 568, 1055

Weidmann, S	Shortening of the cardiac action potential due to a brief injection of KCl following the onset of activity	132, 157, 1956
"	Shortening of the cardiac action potential due to a brief injection of KCl into the coronary circulation of the turtle (T)	132, 19 <i>P</i> , 1956
Weil-Malherbe, H.	The effect of insulin on the adrenergic amines of blood	122, 42P, 1953
,	Evans, C Lovatt, Smith, D F G and The adrenaline and noradrenaline of venous blood of the horse before and after exercise  Renton, G H and Adrenaline and noradrenaline	128, 50 <i>P</i> , 1955
"	in human plasma during natural sleep  Evans, C Lovatt, Smith, D F G and The relation	131, 170, 1956
	between sweating and the catechol content of the blood in the horse	132, 542, 1956
Weiner, J S	van Heyningen, Ruth and A comparison of arm bag sweat and body sweat	116, 395, 1952
,,	van Heyningen, Ruth and The effect of arterial occlusion on sweat composition  The study of sweat composition by means of arm	116, 404, 1952
"	bag collections (T) Collins, K J, Hellmann, K, Lunnon, Barbara J	126, 45P, 1954
,	and Effect of heat exposure on urinary excretion of adrenocorticosteroids in man (T)  Hellon, R. F., Jones, R. M., Macpherson, R. K. and	<b>129,</b> 26 <i>P</i> , 1955
	Natural and artificial acclimatization to hot environments  Hellon, R. F., Lind, A. R. and The physiological reactions of men of two age groups to a hot	132, 559, 1956
	environment	133, 118, 1956
WEIR J B DE V	Campbell, F W and The depth of focus of the human eve Durnin, J V G and Variations in the metabolic	120, 59P, 1953
	cost of standard activities	125, 60P, 1954
Weis Fogh, T	How locusts fly (Film) (T)	129, 40P, 1955
Welch, A D	Blaschlo, H Hagen, P and The wav adrenaline is held by cytoplasmic granules of the adrenal	
•	medulla (T)  Blaschko, H, Hagen, P and Observations on the intracellular granules of the adrenal medulla	120, 58P, 1953
METD C B	The lipsemia clearing reaction and free fatty and	129, 27, 1955 133, 52 <i>P</i> , 1956
WELSIAN, W L	Lovelock J E and A modified form of the ionization anemometer (T)	
WENDT F	Cooper, K E, Ferres, Helen M, Kenyon, J R and A comparison of oesophageal, rectal and para aortic temperatures during hypothermia in man	127, 45 <i>P</i> , 1955
Werff ten Bosc J J van der	H, see VAN DER WERFF, J J	130, 10 <i>P</i> , 1955
Werner, Attie Yvonne	in the hepatectomized dog	
,,	ment of forearm blood flow during a server	<b>119,</b> 129, 1953
	venous pressure	125, 41 <i>P</i> , 1954

Webner, Attie Yvonne	Edholm, O F, Moreira, M F and The effect of a raised venous pressure on venous oxygen con	
"	tent of the forearm (T)  Moretra, M F, Mottram, R F and Effect of venous pressure on the oxygen content of venous	
West, G B	blood in the deep forearm veins  Hunter, R B, Shepherd, D M and Organs of Zuckerkandl	133, 255, 1956 116, 6 <i>P</i> , 1951
"	Akcasu, A, Sinha, Y K and Acetylcholine and benzoylcholine	117 41P, 195°
29	Shepherd, D M and Hydroxytyramine (dopamine) and the suprarenal medulla	117, 67 <i>P</i> , 1959
,,	Riley $J$ $F$ and Histamine in tissue mast cells	117, 72P, 1952
,,	Hunter, R B, Macgregor, Agnes R, Shepherd, D M and The organs of Zuckerkandl and the supra renal medulla	118, 11 <i>P</i> , 1959
,,	Riley, J F and Mast cells and histamine in normal and pathological tissues	119, 44 <i>P</i> , 19 <sub>0</sub> 2
,,	Sinha, Y K and The antagonism between local anaesthetic drugs and 5 hydroxytryptamine	120, 64 <i>P</i> , 1953
,,	Shepherd, D M and Hydroxytyramine and the adrenal medulla	<b>120</b> , 15, 19 <sub>0</sub> 3
,,	Riley, J F and The presence of histamine in tissue mast cells	120, 528, 1953
,,	Fulton, $G$ $P$ , Maynard, $F$ $L$ and Tissue mast cells in the hamster	124, 29 <i>P</i> , 1954
,,	Cass, Rosemary, Head, K. W., Riley, J. F., Stroud, S. W. and Heparin and histamine in mast cell tumours	125, 47 <i>P</i> , 1954
,,	Riley, J F and Mast cells and histamine in hog stomach	130, 3 <i>P</i> , 1955
"	Riley, J F and Mast cell and histamine profiles in the skin of various species	130, 28 <i>P</i> , 1955
,,	Parratt J R and Tissue histamine and 5 hydroxy tryptamine	132, 40 <i>P</i> , 1956
,,	Ambache, N and Presence of an unidentified pharmacologically active substance in skin extracts	133, 19 <i>P</i> , 1956
,,	Parratt, J R and Influence of age on tissue histamine and 5 hydroxy tryptamine	133, 71 P, 1956
"	Parratt, J R and The location and possible func- tion of tissue 5 hydroxytryptamine in the rat	134, 11 <i>P</i> , 1956
West, T	Herzheimer, H and Sensitization of guinea pigs by inhalation	<b>127,</b> 564, 1955
WESTLAKE, E K	Prime, F J and The respiratory response to carbon dioxide in emphysema (T)	119, 33P, 1952
WHALER, B C	Clarke E W and The utilization of <sup>14</sup> C labelled amino acids by the isolated mammalian heart	117, 9P, 1952
,,	Smyth D H and Apparatus for the in vitro study of intestinal absorption	121, 2P, 1953
,,	Smyth, D H and Comparison of the absorption capacities of the intestine and kidney	121, 15P, 1953
"	Gibson, Q H, Newey, H, Smyth, D H and Synthesis of L alanine and L loueine from their unnatural enantiomorphs	125, 65 <i>P</i> , 1954
,,	The occurrence of acylase in the intestinal mucosa (T)	128 84P, 1955

Whaler, B C	Newcy, H, Smyth, D H and The absorption of glucose by the in intro intestinal preparation	129, 1, 1955
19	The metabolism of amino acids by the small intestine	130, 278, 1955
"	and Widdicombe, J G The blood life span of the lymphocyte in rabbits and rats	132, 41 <i>P</i> , 1956
**	May, A J and The absorption of Clostridium botulinum toxin from the alimentary canal	132, 64P, 1956
HEATLEY, V R	MacKenna, R. M. B., —— and Wormall, A. Squalene and other hydrocarbons in human sebum	127, 36 <i>P</i> , 1954
HEELER, H O	Bradley, S. E., Childs, A. W., Combes, B., Cournand, A., Wade, O. L. and Effect of exercise on the splanchnic blood flow and the splanchnic	133, 9 <i>P</i> , 1956
	blood volume in normal man	
THELAN, R F	Adrenaline and the forearm blood flow $Mongar \ J \ L \ and \ Adrenaline as a histamine$	118, 66 <i>P</i> , 1952
,,	liberator in man Vasodilatation in human skeletal muscle during	118, 66 <i>P</i> , 1952
•	adrenalme infusions $Dornhorst$ , $A$ $C$ and $Estimation$ of the effects of	118, 575, 1952
,	changes of respiration in the human subject by reproduction of the respiratory pattern and Young, Maureen I. A comparison between the	119, 9 <i>P</i> , 1952
	effects of adrenaline and noradrenaline on respira- tion in man	<b>119</b> , 9 <i>P</i> , 1952
"	Mongar, J. L. and Histamine release by adrena- line and D tubocurarine in the human subject Duff, F, Greenfield, A. D. M, Shepherd, J. T,	120, 146, 1953
"	Thompson, I D and The response to vaso dilator substances of the blood vessels in fingers immersed in cold water	121 46 7070
**	Duff F, Greenfield A D M and Vasodilatation following arterial gas embolism	121, 46, 1953
"	Duff, F and Antihistamines as a tool in the investigation of vasodilator phenomena in man	122, 26P, 1953
"	Barcroft H, Gashell, P, Shepherd, J T and The effect of noradrenalme infusions on the blood	123, 75 <i>P</i> , 1954
**	flow through the human forearm  Duff F Shepherd W H T and The effect of adrenaline infusions into the carotid and verte	123, 443, 1954
,	bral arteries on the respiration in man  Patterson G C and The measurement of blood	125, 62P 1954
,	flow during reactive hyperaemia in man  Roddie I C Shepherd, J T and The effects of	127, 13 <i>P</i> , 1954
	5 hydroxytryptamine on the peripheral blood vessels of the human subject	130 87 10
	Roddie I C Shepherd J T and A photometric method for the rapid measurement of blood	
	oxygen saturation and capacity  Roddie I C, Shepherd J T and The effect of heating the legs and of posture on the blood flow through the muscle and skin of the human fore	131, 2 <i>P</i> , 1956
	arm	132 45 P 1050
,	Roddie I C Shepherd, J R and The effect on the blood flow through the muscle and the skin of the forearm of infiltration of the motor nerves with	
	local anaesthetic solution	
		132, 65 <i>P</i> , 1956

WERNER,

#### JOURNAL OF PHYSIOLOGY

Edholm, O F, Moreira, M F and The effect of a

ATTIE YVONNE	raised venous pressure on venous oxygen content of the forearm (T)  Moreira, M. F., Mottram, R. F. and Effect of	125, 57 <i>P</i> , 1954
**	venous pressure on the oxygen content of venous blood in the deep forearm veins	<b>133</b> , 255, 1956
West, G B	Hunter, $R$ $B$ , Shepherd, $D$ $M$ and Organs of Zuckerkandl	<b>116,</b> 6 <i>P</i> , 19əl
,,	Alcasu, A, Sinha, Y K and Acetylcholme and benzoylcholme	117, 41 P, 1952
"	Shepherd, D M and Hydroxytyramine (dopamine) and the suprarenal medulla	117, 67P, 190°
**	Riley, J F and Histamine in tissue mast cells	117, 72P, 195°
,,	Hunter, R B, Macgregor, Agnes R, Shepherd, D M and The organs of Zuckerkandl and the supra renal medulla	118, 11 <i>P</i> , 195°
,	Riley, J F and Mast cells and histamine in normal and pathological tissues	119, 44 <i>P</i> , 190°
,,	Sinha, Y K and The antagonism between local anaesthetic drugs and 5 hy droxytryptamine	120, 64P, 1953
,,	Shepherd, D M and Hydroxytyramine and the adrenal medulla	120, 15, 1953
"	Riley, J F and The presence of histamine in tissue mast cells	120, 528, 1953
"	Fulton, $G$ $P$ , Maynard, $F$ $L$ and Tissue most cells in the hamster	124, 29 <i>P</i> , 1954
**	Cass, Rosemary, Head, K. W., Riley, J. F., Stroud, S. W. and Heparin and histamine in mast cell turnours	125, 47 <i>P</i> , 1954
**	Riley, J F and Mast cells and histamine in hog stomach	130, 3 <i>P</i> , 1955
"	Riley, J F and Mast cell and histamine profiles in the skin of various species	130, 28 <i>P</i> , 1905
"	Parratt, J R and Tissue histamine and 5 hydroxy tryptamine	132, 40 <i>P</i> , 1956
"	Ambache, N and Presence of an unidentified pharmacologically active substance in skin extracts	133, 19 <i>P</i> , 1956
"	Parratt J R and Influence of age on tissue histamine and 5 hydroxytryptamine	133, 71 P, 1956.
**	Parratt, J R and The location and possible function of tissue 5 hydroxytryptamine in the rat	134, 11 <i>P</i> , 1956
West, T	Herxheimer H and Sensitization of guinea pigs by inhalation	<b>127,</b> 564, 1955
Westlake, E K	Prime, F J and The respiratory response to carbon dioxide in emphysema (T)	119, 33 <i>P</i> , 1952
WHALER, B C	Clarke, E W and The utilization of <sup>14</sup> C labelled amino acids by the isolated mammalian heart	117, 9P, 19o2
,,	Smyth, $D$ $H$ and Apparatus for the $in$ vitro study of intestinal absorption	121, 2P, 1953
**	Smyth, D H and Comparison of the absorption capacities of the intestine and kidney	121, 15P, 1953
21	Gibson Q H Newcy, H, Smyth, D H and Synthesis of L alanine and L leucine from their	125, 65 <i>P</i> , 1904
,,	unnatural enantiomorphs  The occurrence of acylase in the intestinal mucosa	128, 84 <i>P</i> , 195
<i>"</i>	(T)	128, 841, 100

WHALER, B C	Newey, H, Smyth, D H and The absorption of glucose by the in vitro intestinal preparation	129, 1, 1955
"	The metabolism of amino acids by the small intestine	130, 278, 1955
11	and Widdicombe, J G The blood life span of the lymphocyte in rabbits and rats	132, 41 P, 1956
**	May, A J and The absorption of Clostridium botulinum toxin from the alimentary canal	132, 64P, 1956
WHEATLEY, V R	MacKenna, R. M. B., —— and Wormall, A. Squalene and other hydrocarbons in human sebum	127, 36 <i>P</i> , 1954
Wheeler, H. O	Bradley, S. E., Childs, A. W., Combes, B., Cournand, A., Wade, O. L. and Effect of exercise on the splanchnic blood flow and the splanchnic blood volume in normal man	133, 9 <i>P</i> , 1956
WHELAN, R F	Adrenalme and the forearm blood flow  Mongar J L and Adrenalme as a histamine liberator in man	118, 66 <i>P</i> , 1952 118, 66 <i>P</i> , 1952
"	Vasodilatation in human skeletal muscle during adrenaline infusions	118, 575, 1952
**	Dornhorst, A C and Estimation of the effects of changes of respiration in the human subject by	, ,
,	reproduction of the respiratory pattern and Young, Maureen I A comparison between the	119, 9 <i>P</i> , 1952
	effects of adrenalme and noradrenalme on respiration in man	119 9 <i>P</i> , 1952
	Mongar, J. L. and Histamine release by adrena line and D tubocurarine in the human subject Duff, F., Greenfield, A. D. M., Shepherd, J. T.,	120, 146, 1953
,	Thompson, I D and The response to vaso dilator substances of the blood vessels in fingers	
**	immersed in cold water $D$ uff $F$ , $G$ reenfield, $A$ $D$ $M$ and $V$ asodilatation	121, 46, 1953
***	following arterial gas embolism $Duff$ , $F$ and Antihistamines as a tool in the	122, 28P, 1953
"	investigation of vasodilator phenomena in man Barcroft H, Gaskell, P, Shepherd J T and The	123, 75 <i>P</i> , 1954
	effect of noradrenaline infusions on the blood flow through the human forearm	123, 443, 1954
17	Duff, F Shepherd W H T and The effect of adrenaline infusions into the carotid and verte	
	bral arteries on the respiration in man  Patterson G C and The measurement of blood  flow during reactive hyperaemia in man	<b>4</b>
,	Roddie I C Shepherd, J T and The effects of 5 hydroxytryptamine on the peripheral blood	127, 13 <i>P</i> , 1954
	ressels of the human subject  Roddie, I C, Shepherd J T and A photometric	130, 8 <i>P</i> , 1955
,	method for the rapid measurement of blood oxygen saturation and capacity  Roddie I C Shepherd J T and The effect of heating the legs and of posture on the blood flow	131, 2P, 1956
	through the muscle and skin of the human fore arm  Roddie, I C, Shepherd J R and The effect on the blood flow through the muscle and the skin of the forearm of infiltration of the motor nerves with	132, 47 <i>P</i> , 1956
	local anaesthetic solution	132, 65 <i>P</i> , 1956

WHELAN, R F	Roddie, I C, Shepherd, J T and The similarity of the vasomotor and sudomotor effects in the skin of the forearm of infiltrating the cutaneous or the motor nerves with local anaesthetic	)
"	solution  Roddie, I C, Shepherd, J T and Sympathetic cholinergic fibres producing vasodilatation in	
23	forearm skin  Roddie, I C, Shepherd, J T and Evidence from venous oxygen saturation measurements that the increase in forearm blood flow during body	134, 13 <i>P</i> , 1956
Wніте, К	heating is confined to the skin  Evans, L J and Construction of an electro titration apparatus by modification of a Conway burette	134, 444, 1956 134, 4 <i>P</i> , 1956
Wитенеар, J K	A new laboratory and equipment designed for the synthesis and assay of radioactive isotope labelled organic compounds (T)	119, 31 <i>P</i> , 1952
Whitehouse, R H	Healy, M J R, Lockhart, R D, MacKenzie, J, Tanner, J M and The prediction of adult human body measurements from measurements taken from birth to five years	132, 36 <i>P</i> , 1956
WHITESIDE, T C D	Accommodation of the human eye in a bright and empty visual field	118, 65 <i>P</i> , 1952
**	Campbell, F W and A cine film record of lens changes during accommodation of the human eye	121, 27 <i>P</i> , 1953
WHITFIELD, I C	Hilals, S and Auditory responses of single nerve units at the level of the trapezoid body	117, 62 <i>P</i> , 1902
,,	Hilali, S and Frequency response characteristics of single units in the trapezoid body	120, 9P, 1953
"	Hilali, S and Responses of the trapezoid body to acoustic stimulation with pure tones	122, 158, 1953
"	Coaton, J W and Reproduction of the waveforms of nerve activity by magnetic tape recording 'Two tone' inhibition at the trapezoid body level	125, 13 <i>P</i> , 1904 129, 15 <i>P</i> , 1955
"	Allanson, J T and Excitation and inhibition in the auditory pathway (T)	134, 2P, 1956
"	Allanson, J T and The effect of strychnine on inhibition in a sensory pathway	134, 12 <i>P</i> , 1956
Whitfield, J	Kelvin, R P, Kostial, Krista, Lippold, O C J and The changes in energy expenditure during the attainment of skill with a pursuit meter	120, 42 <i>P</i> , 1953
WHITING, H P	Harris, J E and Control of rhythmical activity in the skeletal muscle of the embryonic dogfish	124, 63P, 1954
WHITNEY, R J	The measurement of volume changes in human limbs	121, 1, 1953
***	Circulatory changes in the forearm and hand of man with repeated exposure to heat	125, 1, 1954
WHITTAKER, V P	Banister, Jean, — and Wijesundera, S The occurrence of homologues of acetylcholine in oxspleen	121 55 1953
WHITTAM, R	Davies, F, Davies, R E, Francis, E T B and The sodium and potassium content of cardiac and other tissues of the ox	118, 276, 195 <u>2</u>

,,,	A convenient micro method for the estimation of tissue chloride  The permeability of kidney cortex to chloride	128, 65 <i>P</i> , 1955 131, 542, 1956
17		
Whittenberger, J L	Ferris, B. G., McIlroy, M. B., Mead, J., Radford, E. P. and The principles of respiratory mechanics	131, 1 <i>P</i> , 1956
WHITTERIDGE, D	Hamds, E A and The projection of the retina on the superior colliculus (T)	118, 5 <i>P</i> , 1952
,,	A class demonstration of vestibulo ocular reflexes (T)	118, 5P, 1952
"	Borragan, J, Collin, R and Anatomical and physiological studies of the olive in the cat (T)	118, 5 <i>P</i> , 1952
"	Cooper, Sybil Daniel, P M and Nerve impulses in the brainstem of the goat Short latency	
**	responses obtained by stretching the extrinsic eye muscles and the jaw muscles  Cooper Sybil, Daniel, P M and Nerve impulses in the brainstem of the goat Responses with long latencies obtained by stretching the	120, 471, 1953
,	extrussic eye muscles  Cooper, Sybil, Daniel, P M and Nerve impulses in the brainstem and cortex of the goat Spon	120, 491, 1953
	taneous discharges and responses to visual and other afferent stimuli  Hamdi F A and The representation of the retina	120, 514, 1953
,	on the optic lobe of the pigeon and the superior colliculus of the rabbit and goat	121, 44 <i>P</i> , 1953
"	Cunningham, D J C Guttmann, L, — and Wyndham C H Cardiovascular responses to bladder distension in paraplegic patients	121, 581, 1953
3,	Daniel, P M and Probable absence of a stretch reflex in extraocular muscles (T)	
,,	Robertson, J. D., Swan, A. A. B. and Increase in sensitivity of baroreceptors produced by anaes thetics	
"	Robertson, J. D., Swan A. A. B. and Effect of anaesthetics on systemic baroreceptors	128, 6 <i>P</i> , 1955 131, 463, 1956
Whittow, G C	Glaser, E M and Evidence for a non specific mechanism of habituation	
**	The effect of different environmental and cold bath temperatures on the cold pressor response in man	122, 43 <i>P</i> , 1953 129, 72 <i>P</i> , 1955
Wickremasinghe R L	, Graff, Jean A E, Ikin, Elizabeth W, Lehmann, H, Mourant, A E, Parkin, Dorothy M and Haemo	•
,	globin E and blood groups in the Veddas  Alsoy M, Bird, G W G, Lehmann, H, Mourant	127, 41 P, 1954
WIDDAS, W F	A E, Thein, H and Haemoglobin E in Asia Alexander, D Pauline, Andrews, R D, Huggett	130, 56P, 1955
,	A St G, Nixon, D A and Placental production of glucose and fructose in the sheep	118 50 P 1050
**	Inability of diffusion to account for placenta glucose transfer in the sheep and consideration of	1
**	the kinetics of a possible carrier transfer An apparatus for recording erythrocyte volum	
	changes in permeability studies  Alexander, D. Pauline, Huggett, A. St. G., Nixon  D. A. and Perfusion of the placenta in the shee	120, 20 <i>P</i> , 1953
	through the umbilical arteries	120, 22 <i>P</i> , 1953

WIDDAS, W F	Kinetics of glucose transfer across the human erythrocyte membrane	<b>120,</b> 23 <i>P</i> , 19 <sub>0</sub> 3
,,	Difference of cation concentrations in foetal and	
	adult sheep erythrocytes Facilitated transfer of hexoses across the human	<b>125,</b> 18 <i>P</i> , 1954
,,	erythrocyte membrane	125, 163, 1954
"	Hexose permeability of foetal erythrocytes  Bowyer, Freda and Erythrocyte permeability to	<b>127, 318, 1955</b>
,,	erythritol	<b>129,</b> 7 <i>P</i> , 19əə
,,	Alexander, D Pauline, Andrews, R D, Huggett, A St G, Nixon, D A and The placental transfer of sugars in the sheep studies with radioactive sugar	129, 352, 1955
,,	Alexander, D Pauline, Huggett, A St G, Nixon, D A and The placental transfer of sugars in the sheep the influence of concentration gradient upon the rates of hexose formation as shown in umbilical perfusion of the placenta	<b>129, 3</b> 67, 1955
,,	Alexander, D Pauline, Nixon, D A, — and	,
"	Wohlzogen, F X Changes in composition of the foetal fluids of the sheep during gestation Alexander, D Pauline, Nixon, D A, —— and	<b>129</b> , 66 <i>P</i> , 1955
	Wohlzogen, $F$ X Urme production in the foetal sheep	130, 13 <i>P</i> , 19 <sub>0</sub> 5
**	Alexander, D Pauline, Huggett, A St G, Nixon, D A and The collection of foetal urine in the sheep (T)	<b>132,</b> 3 <i>P</i> , 19ə6
,,	A class experiment for determining the tension length relationships of frog muscle (T)	<b>132,</b> 5 <i>P</i> , 1956
Widdicombe, J G	Stretch receptors in the traches and bronchi	117, 34 <i>P</i> , 1952
,,	Dawes, G S, Mott Joan C and Carotid and aortic body stimulants in the dog	117, 34P, 1952
"	Dawes, G S, Mott, Joan C, —— and Wyatt, D G  The effect of ventilation on pulmonary blood flow in the new born lamb	118, 45 <i>P</i> , 1952
"	Rapidly adapting mechanoreceptors in the trachea of the cat	118, 46 <i>P</i> , 1952
,,	Dawes, G S, Mott Joan C, —— and Wyatt, D G Changes in the lungs of the new born lamb	121, 141, 1953
"	The localization of pulmonary stretch receptors in the cat	122, 26 <i>P</i> , 1953
**	Dawes G S, Milne, Eleanor D F, Mott, Joan C	
"	and The patency of the ductus arteriosus after birth	122, 37 <i>P</i> , 1953
	and The patency of the ductus arteriosus after	122, 37 <i>P</i> , 1953 122, 38 <i>P</i> , 1953
,,	and The patency of the ductus arteriosus after birth  Dawes, G. S., Milne, Eleanor D. F., Mott, Joan C. and The closure of the foramen ovale after	122, 38 <i>P</i> , 1953 123, 55, 1954
	and The patency of the ductus arteriosus after birth  Dawes, G. S., Milne, Eleanor D. F., Mott, Joan C.  and The closure of the foramen ovale after birth  Respiratory reflexes from the trachea and bronchi of the cat  Receptors in the trachea and bronchi of the cat	122, 38 <i>P</i> , 1953
"	and The patency of the ductus arteriosus after birth  Dawes, G. S., Milne, Eleanor D. F., Mott, Joan C. and The closure of the foramen ovale after birth  Respiratory reflexes from the trachea and bronchi of the cat  Receptors in the trachea and bronchi of the cat  Respiratory reflexes excited by inflation of the lungs	122, 38 <i>P</i> , 1953 123, 55, 1954 123, 71, 1954 123, 105, 1954
"	and The patency of the ductus arteriosus after birth  Dawes, G. S., Milne, Eleanor D. F., Mott, Joan C. and The closure of the foramen ovale after birth  Respiratory reflexes from the trachea and bronchi of the cat  Receptors in the trachea and bronchi of the cat  Respiratory reflexes excited by inflation of the lungs  The site of pulmonary stretch receptors in the cat	122, 38 <i>P</i> , 1953 123, 55, 1954 123, 71, 1954
" "	and The patency of the ductus arteriosus after birth  Dawes, G. S., Milne, Eleanor D. F., Mott, Joan C. and The closure of the foramen ovale after birth  Respiratory reflexes from the trachea and bronchi of the cat  Receptors in the trachea and bronchi of the cat  Respiratory reflexes excited by inflation of the lungs	122, 38 <i>P</i> , 1953 123, 55, 1954 123, 71, 1954 123, 105, 1954

Widdicoмве J G	Dares, G S Mo", Joan C and The cardiac murmur from the patent ductus arranosus in newborn lambs	128, 344, 1°55
	Daurs G S., Mott Joan C and The patency of the	
<b>7*</b>	ductus ar enosus in newborn lambs and its phr-	128, 361, 1955
יינ	Daurs G S., Mo" Joan C and Closure of the foramen ovale in newborn lambs	128 384 1955
ţ+	Hughes, R, May A J and Efficiency of filtration by the poplitical lymph node of the rabbit	130 40P, 1955
27	Hugits, P., May, A J and The output of lymphocytes from the lymphatic system of the rabbit	132 384, 1956
,,	Whaler, B C and The blood life span of the lymphocyte in rabbits and rats	132, 41P, 1956
Widdowson, Easie M.	McCaner P A and Renal function before and after birth  Edl.ofm O G., Fletcher, J G., McCaner, P A and	118 61 <i>P</i> 1952
,	Comparison between daily energy expenditure and dietary intake in man  McCance R A and The response of puppies to a	128 19 <i>P</i> 1955
	large dose of water  McCance $P$ A and The size and function of the	129, 628 1955
77	spleen in voing pupples $McCance$ $P$ $A$ and $Me$ abolism, growth and	129, 636, 1955
_	renal function of piglets in the first days of life	133, 373, 1956
WIDEN LENNART	Frankentaruser B and Anode break excitation in desheathed frog news	131 243 1956
Wiccers, C J	An attempt to separate invocardial and vasomotor factors as determinants of coronary flow	125, 36P 1954
WIFESUNDERA, S	Banis'er Jean Whittaler $VP$ and The occurrence of homologues of see'vlcholme m ox spleen	121 55 1953
WILEIE, D R	Volume changes in muscle (T)	117 22P 1952
P•	Abbo" B C and The relation between relocity of shortening and the tension length curve of	117 121 1993
	ekeletal muscle	117, 26P, 1952
**	The coefficient of expansion of muscle (T)	117 61P 1952
<b></b>	The coefficient of expansion of muscle Effects of hydrostatic pressure on muscular con	119, 369 1953
**	traction (T)  Allow B C and The relation between velocity of	120, 38 <i>P</i> , 1953
	shorening and the tension length curve of skeletal muscle  Marpler on L and The duration of the active	120, 214 1953
27	state in a muscle twitch  Macpler on L and The duration of the active	122 20P, 1953
	s'a e m a musele twitch  Picke J M and The effect of previous stimu-	124, 292 1054
	lation on the active state of muscle  Edwards C., Pitchie J M and The effect of some	130 488 1955
	ca ions on the active state of muscle  Ceaps A and The dynamics of the effect of	133 412, 1056
**	po assum on frog a muscle  Measurement of the series elastic component as	134, +97, 1956
	Various times during a single muscle twitch	134 527 1956

Wilkinson, J F	Nour Eldin, F and The separation of human and bovine plasma thromboplastin with ether and a study of its properties	132, 164, 1956
Wilkinson, J H	Maclagan, N F and Some differences in the meta bolism of thyroxine and truodothyronine in the rat	125, 405, 1954
,,	Maclagan, N F and Some differences in the meta- bolism of thyroxine and truodothyronine in the rat (T)	<b>126,</b> 39 <i>P</i> , 1954
WILKS, C J WILLEY, G L	A method for fixation of smoked tracings  Hey, P and Choline 2 6 xylyl ether bromide, an active quaternary local anaesthetic	124, 49 <i>P</i> , 1954 122, 75 <i>P</i> , 1953
WILLIAMS, C M	Lele, P P, Weddell, G and The relationship between heat transfer, skin temperature and cutaneous sensibility	126, 206, 1954
Williams, G	Jackson, D S, Kellgren, J H, Slack, H G B and A biochemical and histological study of local connective tissue proliferation following sub cutaneous injection, into guinea pigs, of car rageenin, a sulphated polyglactose (T)	<b>132</b> , 54 <i>P</i> , 1956
WILLIAMS, M G	Sellwood, R V and Sodium reabsorption and oxygen consumption in the rabbit's kidney after hexamethonium iodide	123, 4 <i>P</i> , 1953
WILLIAMS, P L	Joseph, J., Nightingale, A and A detailed study of the electric potentials recorded over some postural muscles while relaxed and standing	<b>127,</b> 617, 1955
WILLIAMS, T D	Richards, T G and Velocity changes in the carotid and femoral arteries of dogs during the cardiac cycle	<b>120,</b> 257, 1953
WILLMER, E N	Brindley, G S and The absorption spectrum of	
·	the macular pigmentation in the living eye (T)	116, 10 <i>P</i> , 19əl
"	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man	116, 10 <i>P</i> , 19 <sub>0</sub> 1 116, 350, 19 <sub>5</sub> 2
,	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man  Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)	
	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man  Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)  The measurement of the brightness of small fields by the central fovea (T)	116, 350, 1952
,	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man  Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)  The measurement of the brightness of small fields by the central fovea (T)  Subjective brightness and size of field in the central fovea	116, 350, 1952 117, 58 <i>P</i> , 1952
,	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man  Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)  The measurement of the brightness of small fields by the central fovea (T)  Subjective brightness and size of field in the central fovea  Hughes, A F W and Movement in isolated sponge cells (Film) (T)	116, 350, 1952 117, 58 <i>P</i> , 1952 122, 35 <i>P</i> , 1953
, ,,	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man  Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)  The measurement of the brightness of small fields by the central fovea (T)  Subjective brightness and size of field in the central fovea  Hughes, A F W and Movement in isolated sponge	116, 350, 1952 117, 58 <i>P</i> , 1952 122, 35 <i>P</i> , 1953 123, 315, 1954
, ,, ,,	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man  Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)  The measurement of the brightness of small fields by the central fovea (T)  Subjective brightness and size of field in the central fovea  Hughes, A F W and Movement in isolated sponge cells (Film) (T)  Some factors which affect the 'metaplasia' of an	116, 350, 1952 117, 58 <i>P</i> , 1952 122, 35 <i>P</i> , 1953 123, 315, 1954 125, 15 <i>P</i> , 1954
, " " " WILSON, A E WILSON, C W M	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man  Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)  The measurement of the brightness of small fields by the central fovea (T)  Subjective brightness and size of field in the central fovea  Hughes, A F W and Movement in isolated sponge cells (Film) (T)  Some factors which affect the 'metaplasia' of an amoeba  McDowall, R J S, Soliman, A A and The effect of low sodium on tachyphylaxis (T)  Perry, W L M and A method for assessing con currently the activity of drugs on both the sympathetic and the parasympathetic ganglia supplying the heart (T)	116, 350, 1952 117, 58 <i>P</i> , 1952 122, 35 <i>P</i> , 1953 123, 315, 1954 125, 15 <i>P</i> , 1954 132, 45 <i>P</i> , 1956
, , , , Wilson, A E	the macular pigmentation in the living eye (T)  Brindley, G S and The reflexion of light from the macular and peripheral fundus oculi in man Brindley, G S and The spectral sensitivity curves of human red and green receptors (T)  The measurement of the brightness of small fields by the central fovea (T)  Subjective brightness and size of field in the central fovea  Hughes, A F W and Movement in isolated sponge cells (Film) (T)  Some factors which affect the 'metaplasia' of an amoeba  McDowall, R J S, Soliman, A A and The effect of low sodium on tachyphylaxis (T)  Perry, W L M and A method for assessing con currently the activity of drugs on both the sympathetic and the parasympathetic ganglia	116, 350, 1952 117, 58 P, 1952 122, 35 P, 1953 123, 315, 1954 125, 15 P, 1954 132, 45 P, 1956 123, 2 P, 1953

Wilson, C W M.	Factors influencing the urmary excretion of hist- amine in the rat	126, 141, 1954
**	Armstrong, Destrée, Jepson, J. B., Keele, C. A., Stewart, J. W. and The delayed pain of thermal burns (T)	128, 59 <i>P</i> , 1955
"	Bryant, THE, Eisen, VD, Ellis, RE and The effect of ionizing radiation on tissue histamine	130, 33P, 1955
**	Eisen, V D, Ellis, R E and The effect of X ir radiation on tissue histamine in the rat	133, 506, 1956
Wilso∖, G M	Tudhope, G R and A comparison of **Rb, **P and **Cr as labels for red blood cells	128, 61 P, 1955
"	Munro, D S, Renschler, H and The use of physical methods and of sodium tetrapheny lboron for the separation of 4 K and 24Na in biological fluids	128, 68 <i>P</i> , 1956
**	Kilpatrick, R, Miller, H, Munro, DS, Renschler, H and A comparison of the distribution of <sup>42</sup> K and <sup>56</sup> Rb in the rabbit	128, 71 <i>P</i> , 1955
"	Kilpatrick, R, Renschler, H E, Munro, D S and A comparison of the distribution of <sup>42</sup> K and <sup>88</sup> Rb in rabbit and man	<b>133</b> , 194, 1956
Wilson, T. H	and Wiseman, G. A method for studying intestinal metabolism and absorption and Wiseman, G. The use of sacs of everted small	121, 45 <i>P</i> , 1953
"	intestine for the study of the transference of substances from the mucosal to the serosal surface and Wiseman, G Metabolic activity of the small	123, 116, 1954
	intestine of the rat and golden hamster (Meso cricetus auratus)	<b>123</b> , 126, 1954
Winsbury, G J	Eccles, J. C., Fatt, P., Landgren, S. and Spmal cord potentials generated by volleys in the large muscle afferents	125, 590, 1954
WINSTONE, N E	Franklin, K J and Parturition in the rabbit (T)	123, 13 <i>P</i> , 1953
>; >>	Franklin, K J McDonald, D A and Parturi tion in the rabbit (Film) (T)  Franklin, K J and Evocation of 'parturition'	123, 30 <i>P</i> , 1953
,	efforts and blood pressure changes in the non pregnant doe rabbit (T)  Franklin, K J and Further notes on parturition	123, 77 <i>P</i> , 1954
71	in the rabbit $Aumonier, F J$ , $Franklin, K J$ and Exocation of	125, 43, 1954
	milk formation in the virgin rabbit $(T)$ Aumonier, $F$ $J$ , Franklin, $K$ $J$ and Evocation of	126, 11 <i>P</i> , 1954
"	milk formation in the virgin rabbit  Aumonier F J, Franklin K J and Further observations on the rostral portion of the	126, 54P, 1954
WINTER, L B	agina in the rabbit (T)	127, 31 P, 1954
"	Sensitization of guinea pigs to horse serum protein (T) Sensitization of the guinea pig by horse serum	128, 69 <i>P</i> , 1955 129, 564, 1955
Wixton F R	Renal interstitial pressure	117, 20 P, 1952
,	Intrarenal and renal interstitial pressures in the anaesthetized dog (T)  Ballhatchet, F, Ites, F and A recording flow	117, 32 <i>P</i> , 1952
	meter Trecording now	124, 10 <i>P</i> , 1954

<b>20</b> ±	JOURNAL OF PHIBIOLOGI	
Winton, F R	Ballhatchet, F, Ives, F and All plastic perfusion pumps	132, 32P 1916
Wirth, A	Grant, R and A scotopic 'blue shift' obtained by electrical measurements of flicker resonance	<b>122,</b> 386 1953.
Wise, M	Franklin, $K$ $J$ and $U$ rine outputs during pregnancy in rabbits $(T)$	<b>127,</b> 42 <i>P</i> , 1904
**	Franklin, $K$ $J$ , $Todd$ , $C$ and Some haemex effects (T)	128, 84 <i>P</i> 1955
Wiseman, G	Matthews, D M and Transamination by the small intestine of the rat	120, 55 <i>P</i> , 1953
,,	Absorption of amino acids using an in vitro	120, 63, 1973
"	Wilson, T H and A method for studying in testinal metabolism and absorption Wilson, T H and The use of sacs of everted small	121, 45P, 1903.
,	intestine for the study of the transference of substances from the mucosal to the serosal surface  Wilson, T H and Metabolic activity of the small	<b>123</b> , 116, 1954
	intestine of the rat and golden hamster (Meso cricetus auratus)	<b>123</b> , 126, 1954
"	Preferential transference of amino acids from amino acid mixtures by sacs of everted small intestine of the golden hamster (Mesocricetus	<b>127,</b> 414 19a5
"	auratus) Active transport of amino acids by sacs of everted small intestine of the golden hamster (Meso cricetus auratus)	133, 626, 1956
,	Neame, K D and Transamination of glutamic acid during absorption by the small intestine of the dog	133, 39 <i>P</i> , 1956
Wishart, Mary	Sloan, A W and The relationship of the physic logical third heart sound to the rate of venous return of blood to the human heart	116, 7 <i>P</i> , 19ə1
"	Sloan, A W and A device for recording the jugular phlebogram of the dog	121, 25 <i>P</i> , 1953 122, 135, 1953
WITHERS, R F J	Sloan, A W and Cardiac extra sounds in the dog  Holt S J and Cytochemical localization of esterases using 5 bromoundoxyl acetate	119, 38P, 1952
Wohlzogen, F X	Frazer, J F D and Comparative study on the response of male European tree frogs (Hyla arborea form typica) to chorionic gonadotrophin	120, 25 <i>P</i> , 1953
"	Davey, D A and Special sampling techniques as applied to the assay of chorionic gonadotrophin	125, 51 P, 1954
,,	Dose response curves of male toads (B bufo) for chorionic gonadotrophin and pregnant mares serum gonadotrophin	125, 59 <i>P</i> , 1954
	Alexander D Pauline Nixon, D A Widdas, W F and Changes in composition of the foetal	129, 66 <i>P</i> , 19,5
,	fluids of the sheep during gestation  Alexander D Pauline Nixon, D A, Widdas, W F  and Urine production in the footal sheep	130, 13 <i>P</i> , 195,
Wolff, H S	Fletcher, J G and A light weight integrating motor pneumotachograph (1 m p) with constant low resistance	123, 67 <i>P</i> , 1954

Wolsten Croft, J H	Cambridge, G W and The action of sodium succi- nate on respiration in the anaesthetized cat A method for the continuous measurement of	122, 30 <i>P</i> , 1953
	alveolar carbon dioxide tension in the anaes thetized cat (T)	122, 69 <i>P</i> , 1953
1,	Neuman P P and Influence of the orbital cortex on the changes in blood pressure produced by heating the carotid blood	132, 48 <i>P</i> , 1956
Womersley, J R	Flow in the larger arteries and its relation to the oscillating pressure	124, 31 <i>P</i> , 1954
1	Mathematical theory of oscillating flow in an elastic tube	127, 37 <i>P</i> , 1954
,	Oscillatory flow in arteries effect of radial variation in viscosity on rate of flow	127, 38P 1954
,	Method for the calculation of velocity, rate of flow and viscous drag in arteries when the pressure gradient is known  Hale J F McDonald, D A, Taylor, M G and The counter chronometer method for recording	127, 553, 1955
•	pulse wave velocity  Hale, J F McDonald, D A and Velocity profiles  of oscillating arterial flow, with some calcula	129, 27 <i>P</i> , 1955
Wood, D R	tions of viscous drag and the Revnolds number  French, E B, Kilpatrick, R and The relation of adrenaline secretion to the symptoms of insulin induced hypoglycaemia	128, 629, 1955 128, 72 <i>P</i> , 1955
WOOD, E H.	Swan H J C and A method for the continuous determination of total systemic blood flow in the dog by an indicator-dilution technique	133, 44 <i>P</i> , 1956
WOOD, PAULA	Langham, M E and The transfer of fluorescem across the blood aqueous barrier	132, 55 <i>P</i> , 1956
Wоорсоск W H	Rahere rabbits and Merion rats (T)	127, 29 <i>P</i> , 1954
Woods, A. M	Loci, J A and Some observations on the effect of pituitary fractions containing ACTH and intermedin on adrenaline hyperglycaemia in rabbits (T)	121, 251, 1954 121, 22 <i>P</i> , 1953
Moods 7 M	Harris, G W and The effect of electrical stimu- lation of the hypothalamus on thyroid activity	
Woolf, B	(T)  Mahadeva K, Passmore, R and Individual  variations in the metabolic cost of standardized  evercises the effects of food, age, sex and race	132, 39 P, 1956
Moolsey, C X	Downman, C B B and Inter relations within the auditory cortex	121, 225, 1953
WORK T S	Dalgliesh C E Toh, C C and Fractionation of the smooth muscle stimulants present in extracts of gastro intestinal tract. Identification of 5 hydroxytryptamine and its distinction from substance P	
WORMALD, P X	Bushop J M, Donald K W, Taylor, S H and Effects of supme leg exercise on the splanchnic	120, 298, 1953
	4-1 or gen difference in normal subjects  Bishop J M Donald, K W, Taylor S H and  Blood flow changes in the resting arm during	133, 9P, 1956
	supme leg exercise in normal subjects	133 60P, 1956

## JOURNAL OF PHYSIOLOGY

WORMALL, A	Tupper, R, Watts, R W E and Observations on the zinc in the eggs of the domestic hen	119, 13P, 195°
,,	$MacKenna, R \ M \ B$ , Wheatley, $V \ R$ and Squalene and other hydrocarbons in human sebum	127, 36P, 1954
WRENCH, ANNE	Bigland, Brenda, Lippold, O C J and The electrical activity in isotonic contractions of human calf muscle	
Wrenshall, Gerald A	Lax, Louis C, Sidlofsky, Saul and Compartmental contents and simultaneous transfer rates of phosphorus in the rat	132, 1, 1956
Wright, B M	A respiratory anemometer	<b>127,</b> 25 <i>P</i> , 1954
WRIGHT, D E	Burstall, Pamela A, Catton, W T, Heslop, T S, Schofield, B and An attempt to produce continuous stimulation of the vagal innervation of the stomach by phrenic vagus anastomosis in dogs Jenkins, G N and Leucocytes in saliva	117, 58 <i>P</i> , 195° 121, 12 <i>P</i> , 1953
WRIGHT, E A	Davies, Joan R , Morgan, R S , and Wright,	
ŕ	G Payling The results of direct injections of botulinum toxin into the central nervous system of rabbits	<b>120,</b> 618, 1953
WRIGHT, G H	The variability of the threshold for sensations of warmth evoked by radiation	128, 333, 1955
Wright,	Davies, Joan R , Morgan, R S , Wright, E A and	
G PAYLING	The results of direct injections of botulinum toxin into the central nervous system of rabbits	120, 618, 1953
WRIGHT, M K	Cobb, W A, Morton, H B and A universal head holder (T)	123, 30 <i>P</i> , 19 <sub>0</sub> 3 123, 37 <i>P</i> , 19 <sub>5</sub> 3
"	Evoked potentials in isolated cat cortex.  Cobb, W A, Cowan, W M, Powell, T P S and Some observations on the interaction between evoked strychnine spikes and specific responses in the visual cortex of the cat	128, 54 <i>P</i> , 1955
,,	Cobb, W A, Cowan, W M, Powell, T P S and The relation between photically evoked specific responses and strychnine spikes in the visual cortex of the cat Cobb, W A, Cowan, W M, Powell, T P S and	129, 305, 1955
	Intracortical excitation following strychnine spikes	<b>129,</b> 316, 1955
WRIGHT, P G	An analysis of the central and peripheral com- ponents of respiratory failure produced by anti- cholinesterase poisoning in the rabbit	<b>126,</b> 52, 1954
"	Luck, C P and The activity of the lateral tail veins in a monkey	128, 36 <i>P</i> , 1900
,,	Daly, $M$ de $\tilde{B}urgh$ and The effects of anti-cholin esterases upon peripheral vascular resistance in the dog	133, 475, 1956
WRIGHT, R D	Coats, D A, Denton, D A, Goding, J R and Secretomotor mechanisms of the sheep's parotid gland (T)	129, 7 <i>P</i> , 1955
,,	Coats, D A, Denton, D A, Goding, J R and Secretion by the parotid gland of the sheep	131, 13, 1956
Wright, Samson	Electroencephalographic patterns following intra ventricular injection of tubocurarine in the cat	130, 35P, 1955

Weight, T A	An instrument for direct measurement of photo	118, 21 <i>P</i> , 1952
**	graphic records (T)  Gordon, G and An animal holder containing a  stereotaxic unit (T)	118, 21 P, 1952
>>	Lloyd, B B and A four-channel tap for use in human respiratory studies	133, 34 <i>P</i> , 1956
Wurzel, M	Malcolm J L and The action of cholinesters and quaternary ammonium compounds on the spinal cord of the frog	129, 59 <i>P</i> , 1955
WYATT D G	Dawes, G. S., Mott, Joan C., Widdicombe, J. G. and The effect of ventilation on pulmonary blood flow in the new born lamb Ardran G. M., Dawes, G. S., Prichard, M. M. L., Peynolds, S. R. M. and The effect of ventilation	118, 45 <i>P</i> , 1952
	of the foetal lungs upon the pulmonary circulation	118, 12, 1952
,	Daues, G S, Mott Joan C Widdicombe, J G and Changes in the lungs of the new born lamb Ardran, G M and 35 mm cine camera incor	121, 141, 1953
7	porating a Philips X ray image intensifier A self regulating heart pulse amplifier and rate meter, suitable for measuring and recording	126, 1 <i>P</i> , 1954
	rapidly varying heart rate (T)	133, 6P 1956
Wybap, К. С	Langham, M E and A fluorophotometer for the study of intra-ocular dynamics in the living animal	120, 5 <i>P</i> , 1953
WYKE B D	Cambridge G W and Influence of stimulus para meter variation upon responses in limb muscles to electrical activation of the cerebral cortex Cambridge G W and The action of barbiturates on the electrical activity of the brain of the cat, with particular reference to electrographic monitoring of narcosis during cortical stimu	120, 28 <i>P</i> , 1953
Western T II	lation	120, 56P 1953
Waltie 1 H.	Denton E J and The density of visual purple in the rods of the dark adapted frog (T)  Denton, E J and Study of the photosensitive	122, 35 <i>P</i> , 1953
W	pigments in the pink and green rods of the frog	127 81, 1955
ТГ∨ДНАИ, С Н	Cunningham D J C Guttmann, L., Whitteridge D and Cardiovascular responses to bladder dis- tension in paraplegic patients	121, 581, 1953
Winne-Jones W F K	Bccl, W H Raemussen K G and Proto-chemical reactions The behaviour of membranes as pro todes and the theory of the glass electrode	121, 6P, 1953
YARAR G B	The vascular pattern of the infundibular process of the hypophysis cerebri in infants and adults	118 21 <i>P</i> 1952
YATES P A	Longson D., Mills J N Thomas S and Tubular maxima for phosphate reabsorption in man (T) Wills J N., Thomas S and Reappearance of	
	Ville J N Thomas S and Acceptant	125, 466, 1054
	voluntary bladder emptying in man	129, 408 1955

## JOURNAL OF PHYSIOLOGY

YATES, P A	Longson, $D$ , $Mills$ , $J$ , $N$ , $Thomas$ , $S$ , and Handling of phosphate by the human kidney at high plasma concentrations	131, 550, 1956
Yoffey, J M	Gall, $W$ $J$ , Rogers, $A$ $F$ and $A$ low pressure chamber	124, 54P, 1954
Young, A E	Duguid, J B, Hulse, E V, Richardson, M W and A method of calculating the respiratory surface area of the lung	121, 8 <i>P</i> , 1953.
Young, F G	Lockett, Mary F, Reid, E and The diabetogenic action of purified growth hormone in adrenal ectomized animals	121, 28, 1953
Young, I MAUREEN	The placental transfer of hexamethonium bromide in the rabbit and its appearance in the amniotic fluid	<b>116,</b> 4 <i>P</i> , 1951
,,	Donald, I and An automatic respiratory amplifier	116, 41 P, 195°
11	Dornhorst, A C and The effect of adrenalme and noradrenalme on the foetal circulation (T)	118, 34 <i>P</i> , 1952.
"	Dornhorst, A C and The action of adrenaline and noradrenaline on the placental and foetal circulations in the rabbit and guinea pig	118, 282, 1952
"	Whelan, R F and A comparison between the effects of adrenaline and noradrenaline on respi	
5>	ration in man  Dornhorst, A C and Recording of rapid fluctua tions of CO <sub>2</sub> in respiratory gases	119, 9 <i>P</i> , 1952 119, 33 <i>P</i> , 1952
"	Bradley, R. D., Gaskell, P., Holland, W. W., Lee, G. de J. and The acid base changes in arterial blood during adrenaline hyperpnoea in man	122, 39 <i>P</i> , 1953
**	The placental transfer of hexamethonium bromide and the origin of ammotic fluid in the rabbit	122, 93, 1953
"	Bradley, R. D., Gaskell, P., Holland, W. W., Lee, G. de J. and The acid base changes in arterial blood during adrenaline hyperphoca in man	<b>124</b> , 213, 1954
,	Holland, W W and Physiological responses of the neonatal blood pressure (T)	133, 68 <i>P</i> , 1956
Young, J Z	Causley, D J, Norrie, G O, Roberts, F and Counting of microscopic particles (T)	120, 32P, 1953
Zamis, Eleanor J	Species differences in response to neuromuscular blocking substances (T)  Jewell, P A and A differentiation between red	117 2P, 1952
"	and white muscle in the cat based on responses to neuromuscular blocking agents	120, 47 <i>P</i> , 1953
,,	Jewell P A and Changes at the neuromuscular junction of red and white muscle fibres in the cat induced by disuse atrophy and hypertrophy	120, 48 <i>P</i> , 1953
"	Motor end plate differences as a determining factor in the mode of action of neuromuscular blocking substances	122, 238, 1953
**	Perry, W L M and The effect of decamethonium on potassium loss from normal and denervated muscles (T)	123, 69 <i>P</i> , 1954
<b>,</b> ,	Jewell, P A and A differentiation between red and white muscle in the cat based on responses to neuro muscular blocking agents	124, 417, 1954

## INDEX OF AUTHORS

aimis, Eleanor J	Jewell, P A and Changes at the neuro muscular junction of red and white muscle fibres in the cat induced by disuse atrophy and by hypertrophy	<b>124</b> , 429, 1954
"	Bowman W C and A comparison between the responses of the tibialis anterior and the soleus muscles in the cat to adrenaline, noradrenaline	121, 120, 1001
	and isoprenaline	128, 14 <i>P</i> , 1955
**	Goetzee, B M and The influence of lowered body temperature on the action of certain drugs (T)	129, 82 <i>P</i> , 1955
AYAT, A F	McDowall, R J S and Sodium chloride and anoxic cardiac muscle	117, 75 <i>P</i> , 1952
,	McDowall, R J S and Sodium chloride and cardiac muscle	120, 13 <i>P</i> , 1953
	Harris, A M, McDowall, R J S and The effects of potassium in the all or none phenomenon	123, 1 <i>P</i> , 1953
,	McDowall, $R$ $J$ $S$ and $S$ ome reactions of the iso lated rat ventricle preparation $(T)$	123, 2P, 1953
"	McDowall, R J S, Munro, A F and Sodium and cardiac muscle	<b>130,</b> 615, 1955
Cotterman, Y	Landgren, S, Neil, E and The effects on baro ceptor activity of the local application of drugs	
	to the carotid sinus wall	116, 27P, 1951
**	von Muralt, A and Anaesthetic action of anti- aneurins on sensory nerve endings	117 8470 1050
71	Cohen, M J, Hagiwara, S and Impulse pattern	117, 64P, 1952
	of taste (T)	129, 43P, 1955

# SUBJECT INDEX

to Volumes 116 to 134

## PREFACE TO SUBJECT INDEX

THE same method has been adopted in the compilation of this Index as in the previous one. The main points of practical significance to the user of the Index are the following

- (1) References to volumes are in Clarendon type and references to pages are in ordinary Arabic numerals. Page references to articles in the *Proceedings* are in Arabic numerals followed by a capital P. Articles published by title only are indicated by (T)
- (2) Owing to the length of some papers and the variety of subjectmatter covered, the reference in each case is not to the first page of a paper but to the first page on which the subject in question is mentioned
- (3) When two alternative words are in general use for the same subject, e.g. liver and hepatic or kidney and renal, the choice of the author of the paper has been accepted and only a general cross-reference given to the whole subject
- (4) The name of the experimental animal used has been given after each reference. When more than two mammals are concerned, the word Mammal is used, whereas the term Various applies to more than two species including other vertebrates and invertebrates.

1957

M GRACE EGGLETON

## SUBJECT INDEX

- Abdominal aorta, velocity of flow m (rabbit), 118 323
- Abdominal muscles, expiratory electro m-ographic activity of (man) 120 409 pulmonary ventilation effect on activity of (man) 122 282
  - refer activity of (cat and rabbit), 118 197 respiration affecting electromyogram of (man), 117 222
  - respiration and role of, 116 49P respiration effect on activity of (man), 127, 423
- Abdominal reflex, hmb reflex interaction with (cat) (T), 119 31 P
- Abdominal sympathectomy, slow C fibres synapsing in inferior mesentenc ganglion affected by (rabbit), 124-150
- Abdominal sympathetic ganglia, method for perfusing (T) 120 43 P
- Abomasum, acetylcholine and other hu moral agents action on (sheep), 125-476 composition of digesta leaving (sheep), 116-98
  - pastage of digesta from (sheep), 116 84 vagotomy effect on motility of (sheep), 119 163
- Absorptiometer, sensitive single-cell, un afferted by voltage changes in current snoply (T) 119 21 P
- Absorption spectra, retinal extracts show mg (Xenopus) 125, 28
- Acceleration receptors, statocyst con taining (lobster) 130, 21
- Accessory cervical ganglion, conduction of impulses through (rabbit) 133 220
- Accessory respiratory muscles, larvax affected by (rat) 130 474
  - motor unit activity in (rat) 130 1P
- Acclimatization, ischaemia action on sweat composition affected by (man) 116 407
  - natural and artificial to hot environment (man) 132 559
  - supplementary oxygen effect at 20 000 ft on (man) (T) 120 18 P
  - sweat production affected by (man) 116
  - uppar tolerable levels of warmth in tropics for Europeans (man) 125 55P
- Accommodation, cliary muscle power in (man) 128 104
  - membrane current in nerve and (Loligo), 117 537

- Accommodation, motoneurone showing (cat), 134, 464
  - proportion of ciliary force required for (T), 126, 25 P
- Accommodation reflex, colour blundness effect on (man) 121, 570
  - light minimum required to elicit (man), 122 34P
  - minimum quantity of light required to elicit (man) 123, 357
- Acetate, acetylcholme synthesis affected by (rabbit) 118, 96
  - acetylcholine synthesis and (blowfly), 132, 344
  - foetal uptake of (sheep), 129, 67P
- rumen absorption of (sheep), 121, 453 Acetate metabolism, diet effect on dia-
- phragm muscle (rat), 123, 542 Acetic acid, ramen absorption of (sheep),
- Acetic acid, ramen absorption of (sneep),
- Acetazolamide, scudosis sffecting action on ere of (rabbit) 130, 27 P
  - CO<sub>2</sub> carnage affected by (man), 129, 71P gastric muco-a electrolyte output affected by (cat), 133, 325
- Acetvicholine, adrenaline central antagon ism on water duresis to (dog), 131, 712
  - anaesthetics effect on brain (mammal), 125 56
  - artery velocity changes during cardiac cycle affected by (dog) 120 263
  - atropine effect on peripheral vasodilator action of (man), 131 644
  - auricle conduction relocity affected by (rabbit) 126, 3P
  - auricular fibrillation and (H-L), 131, 324 axotomized ganglion response to (rabbit) 123, 570
  - axotomized sympathetic ganglia metabolism of (cat) 118 60P
  - axotomy effect on metabolism in ganglia of (rat) 124, 113
  - behaviour affected by injection into cerebral ventricle of (cat), 125, 493
  - benzovleholme action on (various), 117,
  - bladder contractions affected by (cat) 127, 63
  - blood flow of finger exposed to cold affected by (man), 121, 48
  - blowfir synthesis of 129, 13P
  - botulinium toxin effect on release at motor nerve-ending of (cat), 123, 508

216 Acetylcholine, botulinum toxin effect on response of gut to (mammal), 127, 457 carotid sinus receptors in perfused pre paration affected by (cat), 130, 517 cerebellum electrical activity affected by (rabbit), 132, 396 ciliary ganglion affected by (cat), 119, 455 chary movement in gill plates and (Mytilus), 118, 30Pcitric acid role in synthesis of, 129, 81 P cooling action on auricle affected by (rabbit), 131 191 coronary arteries (perfused) affected by (dog), 122, 491 cortical neurone discharge after eserine affected by (cat), 121, 134 crustacean muscle fibres action potentials affected by (crab), 120, 199 cutaneous pain responses to (man), 120, cyclostomes heart affected by (hagfish and lamprey), 131, 265 denervated ear for assay of (rabbit), 121, denervation effect on content in ear artery of (rabbit), 121, 611 denervation effect on sensitivity skeletal muscle to (frog), 131, 9 dorsal and ventral root potentials affected by (T), 118, 50P e c g and blood pressure affected by intra venous (man) (T), 127, 5P electrically driven heart affected by (H-L). 126, 43Pend plate potential with low sodium affected by (frog), 118, 79 estimation in insects of 134, 241 factors in synthesis of (blowfly), 132, 343 foetal circulation affected by (sheep), 134, 139 ganglion blocking drugs effect on de nervated ganglion response to (cat), 126, ganglion depolarization effected by (cat) 119, 45 gastric muscularis mucosae response to (man), 120 366 gastric musculature affected by (sheep), 125, 476 hand and forearm blood flow affected by (man), 120, 160 hand and forearm blood vessels affected by (man) (T), 118 69P heart affected by (Lamellibranchs), 125, 208, (H L), 128, 277 heart rate effect on release of (rabbit) 134,

1 . or 4 - 13. (dom) 128 495

559

liver blood flow affected by (rat), 123, 590 magnesium and calcium ions effect on release in ganglion of (cat), 124 234 magnesium effect on action on end plate potential of (frog), 124, 374 mechanisms of synthesis of (rabbit), 118 membrane potential, spike discharge and tension of taenia coli affected by (guinea pig), 128, 210 neuro muscular junction active spots potentials from (frog), 132, 644 noradrenaline potentiation at end plate of (frog), 130, 568 oesophageal muscularis mucosae response to (mammal) 130 124 oxygen utilization by perfused liver affected by (dog), 132, 525 pancreas slices affected by (pigeon), 132 perfused isolated heart formation of (rabbit), 126, 181 plain muscle membrane potentials af fected by (guinea pig) 125 309 plain muscle oxygen consumption affected by (guinea pig) 122, 119 plexus free circular muscle of jejunem affected by (cat), 119, 390 post ganglionic axotomy effect on response of sympathetic ganglion to (cat), 127, 608 post tetanic decurarization affecting re lease of (cat) 118, 223 between plain potassium movement muscle and surrounding fluid affected by (guinea pig), 131, 695 removal by diffusion of 128, 222 removal from limited region by diffusion (T) 118, 50PRenshaw cell activity affected by (cat), 126, 547 Renshaw cells affected by (cat) 131, resting and action potentials of auricle affected by (cat), 120, 451 sensory cutaneous nerve pathways af

footed by (out) 119 118

Acetylcholine, hepatic vessels in perfused

(frog), 128, 169

472

liver affected by (mammal), 132, 513

intracellular injection in muscle cell of

intraventricular injection in conscious

isolated auricle refractory period affected

by (guinea pig and rabbit), 132, 623

joint blood vessels affected by (dog), 133,

lateral ventricle injection of (cat), 123, 150

animal of (cat), 120, 12P

- Acetylcholine, slow muscle fibres reaction to (frog), 121, 327
  - sodium effect on sympathetic ganglion release of (cat), 129, 159
  - spinal cord affected by close arterial in jection of (cat) 119, 428
  - spleen containing (ox), 121, 62
  - superior cervical ganglion affected by (rat and rabbit) 132, 244
  - sympathetic ganglion release of (cat), 119, 439, 131, 480
  - temperature effect on output by sym pathetic ganglion of (cat), 132, 239
  - TEPP action on content in blood of (cat), 124, 331
  - touch receptors affected by (frog), 129, 17P, 133 243
  - urner affected by (water buffalo), 129 430 urne flow affected by intracarotid injection of (dog) (T) 120 8P
  - Acetylcholine receptors, localization in skeletal muscle of (frog), 128, 157
  - Acetylcoenzyme A, acetylcholine syn thesis and (blowfly), 132 348
  - Acetylesterases, organophosphate insecticides and (insects), 127 20 P
  - Achlorhydria, observations on (man), 130
  - Acidosis, Diamox action on eye affected by (rabbit) 130, 27P
    - diffusion respiration inducing (dog), 133, 347
    - renal response during dehydration to  $(dog)_1$ 123 6P
    - renal response of voung to (dog) 124 358 renal response to respiratory (man) 122 81
  - Aconitine, acetylcholine in auricular fibril lation caused by (H L) 131, 324
    - isolated auricle refractory period affected by (guinea pig and rabbit) 132 623
  - Acoustic stimulation trapezoid body response to pure tone (cat) 122 158
  - Action potential amplifier for local and spike 122 2P
    - nuncle single fibres showing (cat) 119 143 calculation of nerve (Loligo) 117 522
    - cooling effect on non meduliated nerve (rabbit) 134 713
    - cortical neurones showing (cat) 130 96 denervation effect on skeletal muscle (frog) 131 6
    - electroplate showing (electric eel) 119, 322
    - intracellular recording of motoneurone (cat) 117 438
    - intracellular sodium concentration in inuscle effect on (frog) 121 195

- Action potential, isometric tension of skeletal muscle relation to its integrated (man), 117, 492
  - membrane potential displacement effect on (Loligo), 116, 433
  - motoneurone excitatory post-synaptic potential effect on (cat), 130, 382
  - origin of (Loligo), 116, 470
  - post-tetanic enhancement in vitro of (cat), 134, 6P
  - retma showing (frog), 119, 58
  - stretching of single nerve fibre effect on (frog), 124, 89
  - sympathetic ganglion intracellular re cording of (rabbit), 130, 572
  - tetraethy lammonium ion effect on muscle (toad), 129, 513
  - Active state, tetraethylammonium ion effect in skeletal muscle on (frog), 133, 414
  - Active state duration, temperature and stimulus strength effect on skeletal muscle (frog) 124, 295
  - Actomyosin, ATP effect on unmolecular films of, 116 34P
  - Acuity of movement perception, optic lobe recording of (locust), 133, 76
  - Acylase, intestinal mucosa containing (T), 128 84P
  - Adaptation, facial pit organ showing (snake) 134, 61
    - hypothermia and reanimation showing (rat) 128 549
  - Adaptation index, tracheobronchial re ceptors and (cat) 123, 73
  - Adductor muscle contraction and relaxa tion of (Mytilus), 120, 129 (Pecten) 124, 100
  - Adenohypophysis, thyroid activity af fected by thyroxine injection into (rabbit), 131, 127
  - Adenohypophysis transplantation, thy roid activity affected by (rabbit) 131, 138
  - Adenosine sodium transfer in stored erythrocytes affected by (man), 131, 34P
  - Adenylic acid vasodilator activity of (rabbit), 126, 130
  - ADP, vasodilator activity of (rabbit), 126, 130
  - Adrenal ascorbic acid, demedullated animal's response to stress on (rat) 118, 588
  - Adrenal cortex, changes in hormone output of (calf) 122, 59 P
    - functional grafts from frozen and thawed (rat), 124 61 P

Acetylcholine, botulinum toxin effect on response of gut to (mammal), 127, 457 carotid sinus receptors in perfused pre paration affected by (cat), 130, 517

cerebellum electrical activity affected by (rabbit), 132, 396

ciliary ganglion affected by (cat), 119, 455 ciliary movement in gill plates and (Mytilus), 118, 30 P

citric acid role in synthesis of, 129, 81 P cooling action on auricle affected by (rabbit), 131, 191

coronary arteries (perfused) affected by (dog), 122, 491

cortical neurone discharge after eserine affected by (cat), 121 134

crustacean muscle fibres action potentials affected by (crab), 120, 199

cutaneous pain responses to (man), 120, 331

cyclostomes heart affected by (hagfish and lamprey), 131 265

denervated ear for assay of (rabbit), 121, 598

denervation effect on content in ear artery of (rabbit), 121, 611

denervation effect on sensitivity of skeletal muscle to (frog), 131, 9

dorsal and ventral root potentials affected by (T), 118 50P

e c g and blood pressure affected by intra venous (man) (T), 127 5P

electrically driven heart affected by (H-L), 126, 43 P

end plate potential with low sodium affected by (frog), 118 79

estimation in insects of 134, 241

factors in synthesis of (blowfly), 132, 343 foetal circulation affected by (sheep), 134 139

ganglion blocking drugs effect on de nervated ganglion response to (cat), 126 102

ganglion depolarization effected by (cat), 119, 45

gastric muscularis mucosae response to (man), 120, 366

gastric musculature affected by (sheep) 125, 476

hand and forearm blood flow affected by (man), 120, 160

hand and forearm blood vessels affected by (man) (T), 118 69 P

heart affected by (Lamellibranchs), 125, 208, (H L), 128, 277

heart rate effect on release of (rabbit), 134, 559

hepatic vessels affected by (dog), 128 425

Acetylcholine, hepatic vessels in perfused hiver affected by (mammal) 132, 513 intracellular injection in muscle cell of (frog), 128, 169

intraventricular injection in conscious animal of (cat), 120, 12P

isolated auricle refractory period affected by (guinea pig and rabbit), 132, 623 joint blood vessels affected by (dog), 133,

lateral ventricle injection of (cat), 123 150 liver blood flow affected by (rat), 123, 590 magnesium and calcium ions effect on release in ganglion of (cat), 124, 234

magnesium effect on action on end plate potential of (frog), 124, 374

mechanisms of synthesis of (rabbit), 118
94

membrane potential, spike discharge and tension of taenia coli affected by (guinea pig), 128, 210

neuro muscular junction active spots potentials from (frog), 132, 644

noradrenaline potentiation at end plate of (frog), 130, 568

oesophageal muscularis mucosae response to (mammal), 130 124

oxygen utilization by perfused liver affected by (dog), 132, 525

pancreas slices affected by (pigeon), 132
447

perfused isolated heart formation of (rabbit) 126, 181

plain muscle membrane potentials af fected by (guinea pig), 125, 309

plain muscle ovy gen consumption affected by (guinea pig), 122, 119

plexus free circular muscle of jejunem affected by (cat) 119, 390

post ganglionic axotomy effect on response of sympathetic ganglion to (cat) 127, 608

post tetanic decurarization affecting re lease of (cat) 118, 223

potassium movement between plans muscle and surrounding fluid affected by (guinea pig), 131, 695

removal by diffusion of, 128, 222

removal from limited region by diffusion (T) 118 50P

Renshaw cell activity affected by (cat)
126 547

Renshaw cells affected by (cat) 131,

resting and action potentials of auricle affected by (cat), 120, 451

sensory cutaneous nerve pathways af fected by (cat), 119, 118

Adrenaline, denervated ear for assay of (rabbit), 121, 598

ductus arteriosus in foetus affected by (sheep), 132, 324

end plate potential affected by (frog), 130, 566

eosmophil count and blood sugar af fected by (horse), 130, 704

foetal circulation affected by (sheep) 134, 139

foetal perfused heart affected by (man), 120, 122

forearm blood flow affected by (man), 118, 66P

forearm blood flow after nerve block or sympathectomy affected by (man), 118, 576

gastric muscularis mucosae response to (man), 120, 368

gastric secretion and blood flow affected by (cat), 121, 438

gastric stretch receptor activity affected by (cat), 126, 259, 126, 273

heart release of (rabbit), 134, 563

hepatic vessels affected by (dog), 128, 417 hepatic vessels in perfused liver affected

by (mammal) 132, 511 histamine excretion in urine affected by (rat), 126, 148

histamine liberation by (man), 118, 66P, 120 146

hypothalamus containing (cat and dog) 123, 461

ileum affected by (guinea pig), 118 171 insulin induced hypoglycaemic symptoms affected by secretion of (man), 128, 72 P

intracellular granules of adrenal medulla containing (ox), 129 38

intrarenal pressure affected by (dog), 123, 139

iris (albino and pigmented) oxidation of (rabbit), 119 196

joint blood vessels affected by (dog) 133, 472

knee joint blood flow affected by (dog), 132 370

lateral centricle injection of (cat) 123 151 liver blood flow affected by (rat and rabbit) 116 25 P, 120 78, (rat), 123, 576

liver inactivation of (man), 118, 13P

muscle blood flow and blood lactate af fected by (man) 131, 10P 132 372

ocsophageal muscularis mucosae response to (mammal) 130, 125

ovulation effected by injection into hypothalamus of acid and (rabbit), 132, 577 oxigen utilization by perfused liver af

fected by (dog), 132, 525

Adrenaline, parotid salva flow affected by (sheep), 130, 15P

placental and foetal circulations affected by (rabbit and guinea pig), 118, 282

plain muscle membrane potentials af fected by (guinea pig), 125, 309

plain muscle oxygen consumption affected by (guinea pig), 122, 119

potassium depression of diaphragm anta gonism by (rat), 125, 225

potassium movement between plain muscle and surrounding fluid affected by (guinea pig), 131, 696

pressure volume relation in femoral tree affected by (cat), 130, 422

renal venous blood containing (rabbit), 128, 517

respiration affected by infusion into verte bral artery of (man), 125, 62P

skeletal muscle contraction affected by (cat and rat), 116, 357

skeletal muscles affected differently by (cat), 128 14P

akeletal nerve muscle preparation af fected by (rat), 128, 619

sleep effect on plasma (man), 131, 170

small intestine response to electrical stimu lation affected by (guinea pig), 120, 41

splanchnic denervation effect on hand vessels sensitivity to (T), 116, 3P

spleen affected by (dog), 122, 211

superior cervical ganglion (perfused) responses affected by (cat), 132, 536 sweat gland stimulation by (horse), 134, 423

sweating relation to content in blood of (horse), 132, 542

sympathectomy effect on hand blood flow response to (man), 129, 55

sympathectomy effect on skin vessels response to (man), 117, 415

synaptic transmission and adrenal medul lary secretion affected by (dog), 130, 497 thyroid activity by injection into hypo thalamus of (rabbit), 131 130

thyroid gland uptake of <sup>131</sup>I affected by (rabbit), 131, 87

touch receptor response in skin affected by (dog) 132, 46

ureter affected by (water buffalo) 129, 427

urine flow affected by intracarotid injection of (dog) (T), 120, 8P

uterme movements affected by (rabbit), 117, 319

vasomotor mechanism affected by (dog), 134, 8 P water diuresis affected by (dog), 128, 125

Adrenal cortex, growth hormone effect on mitotic activity after hypophysectomy affected by (rat), 127, 273

hexoestrol action on corticosterone secre tion by (rat), 128, 7P

hexoestrol effect on (rat), 130, 601

hypophysectomy effect on rate of decay of mitotic activity of (rat), 127, 265

iron preparations affecting (mammal), 119, 1P

sexual activity effect on structure of (cat), 118, 567

temperature and oxygen consumption relation affected by (T), 125, 62P

thyroid activity affected by (rabbit), 126,

work in hot environment effect on (man), 127, 41

Adrenal cortical hormones, thyroid ac tivity affected by (rat and rabbit), 131, 59

Adrenal gland, adrenaline and noradrena line changes in vitro in (mammal), 117, 68 P

adrenaline and noradrenaline output from (calf), 125 45P

catechol amines and ATP in (rabbit), 133, 17 P

morphine effect on ascorbic acid content of (rat) (T), 120, 22P

N isopropyl noradrenaline like substance in (cat), 124, 67P

sympatholytic drugs action on, 118, 37P Adrenal medulla, ACTH release in absence of (rat), 118, 588

activity in early life of (man), 118, 11 P adrenaline action on (dog), 130, 500 adrenaline and noradrenaline distribution

in (ox), 123, 53 P adrenaline in cytoplasmic granules of (T),

120, 58 P amine oxidase in (guinea pig), 124, 188 catechol amines and ATP distribution in

homogenates of (ox), 133, 548 ganglion cells in (rat), 118, 1P

hydroxytryptamine in (mammal), 117, 67P, 120, 15

hypothalamus sympathin depletion ac companying secretion by (rat and cat), 123, 468

intracellular granules in (ox), 129, 27 water diuresis mediation by (rat), 118,

486
Adrenal medullary granules, differential sedimentation of noradrenaline in homo

genates of (ox), 132, 53 P sedimentation in hypertonic sucrose of (ox), 132, 44 P Adrenalectomy, amino acids in regeneral ing liver affected by (rat), 124, 443

blood ADH and vasopressin fate after (rat), 124, 59 P

blood histamine affected by (rabbit), 121, 487

blood vasoconstructor activity after had morrhage affected by (rabbit), 128, 031 body temperature in response to cold

affected by (rat), 133, 338 cardiac hypertrophy affected by (rat),

116, 220

growth hormone action on glucose toler ance affected by (dog and cat), 121, 28 high oxygen pressure actions affected by (rat), 125, 46 P

potassium excretion affected by (rat)
126, 47P

salt intake effect on water balance fol lowing (rat), 119, 17P

skin histamine after remote injury af fected by (rat), 119, 413

succinic dehydrogenase distribution af fected by (rat), 122, 181

thyroid activity affected by (rat), 131, 64
Adrenaline, acetylcholine central antagon
ism on water diuresis to (dog), 131,
712

adrenal gland demethylation in vitro of (mammal), 117, 68P

adrenal gland output of (calf), 125, 45 P adrenergic blocking drugs effect on inhibitory action of (rabbit and guinea pig),

120, 64P amine oxidase inhibition effect on excretion of (cat), 133, 13P

artery velocity during cardiac cycle af fected by (dog), 120, 263

BAL effect on blood sugar with (rabbit), 118, 479

bladder contractions affected by (cat), 127, 60

calf and paw blood flow affected by (dog), 134, 19P

calf blood flow during infusion of (man),

127 7P capillary filtration rate affected by (man),

123, 31 P cerebral blood flow affected by (mammal),

133 16 cocaine effect on nictitating membrane

response to (cat), 118, 28 P coronary arteries (perfused) affected by (dog), 122, 491

curarized isolated sympathetic ganglion response affected by (rabbit) 117, 203 cyclostomes heart affected by (hagfish and lamprey), 131, 204 Adrenaline, denervated ear for assay of (rabbit), 121 598

ductus arteriosus in foetus affected br (sheep) 132 324

end plate potential affected by (frog), 130, 566

eosmophil count and blood sugar af fected by (horse) 130 704

foetal circulation affected by (sheep) 134
139

fortal perfused heart affected by (man), 120 122

forearm blood flow affected by (man), 118, 66P

forearm blood flow after nerve block or sympathectomy affected by (man), 118, 576

castric muscularis mucosae response to (man), 120 368

gastric secretion and blood flow affected by (cat) 121, 438

gastne stretch receptor activity affected by (cat) 126 259, 126 273

heart release of (rabbit) 134, 583

hepatic vessels affected by (dog), 128–417 hepatic vessels in perfused liver affected by (mammal) 132–511

histamine excretion in urine affected by (rat) 126, 148

histarnine liberation by (man) 118, 66P, 120 146

hypothalamus containing (cat and dog) 123 461

iloum affected by (guinea pig) 118 171 usulin induced hypoglycaemic symptoms affected by secretion of (man) 128, 72 P

intracellular granules of adrenal medulla containing (ox) 129, 38

intrarenal pressure affected by (dog) 123, 139

rrs (albino and pigmented) oxidation of (rabbit) 119 196

joint blood vessels affected by (dog) 133 472

knee joint blood flow affected by (dog), 132 379

lateral ventricle injection of (cat) 123 151 liver blood flow affected by (rat and rabbit) 116 25P 120 78, (rat) 123 576

hver mactivation of (man) 118 13P muscle blood flow and blood lactate af feeted by (man) 131 10P 132 372

occophageal muscularis mucocae response to (mammal) 130 125

ovulation effected by injection into hypo thalamus of acid and (rabbit) 132, 577 oxygen utilization by perfused liver af fected by (dog) 132 525

Adrenaline, parotid saliva flow affected by (sheep), 130, 15P

placental and foetal circulations affected by (rabbit and guinea pig), 118, 282

plain muscle membrane potentials af fected by (guinea pig), 125, 309

plam muscle oxygen consumption affected by (guinea pig), 122, 119

potassium depression of diaphragm anta gonism by (rat) 125 225

potassium movement between plain muscle and surrounding fluid affected by (guinea pig) 131, 696

pressure volume relation in femoral tree affected by (cat) 130, 422

renal venous blood containing (rabbit), 128 517

respiration affected by infusion into verte bral artery of (man), 125 62P

skeletal muscle contraction affected by (cat and rat) 116 357

skeletal muscles affected differently by (cat), 128 14P

skeletal nerve muscle preparation affected by (rat) 128, 619

sleep effect on plasma (man), 131, 170

small intestine response to electrical stunulation affected by (guinea pig) 120, 41 splanchnic denervation effect on hand vessels sensitivity to (T), 116–3P

spleen affected by (dog), 122 211

superior cervical ganglion (perfused) responses affected by (cat), 132 536

sweat gland stimulation by (horse) 134, 423

sweating relation to content in blood of (horse), 132, 542

sympathectomy effect on hand blood flow response to (man) 129 55

response to (man) 117 415

synaptic transmission and adrenal medul lary secretion affected by (dog), 130, 497 thyroid activity by injection into hypo

thalamus of (rabbit) 131 130 thyroid gland uptake of <sup>131</sup>I affected by

(rabbit) 131, 87

touch receptor response in skin affected by (dog) 132 46

ureter affected by (water buffalo), 129, 427

urme flow affected by intracarotid injection of (dog) (T), 120 8P

uterine movements affected by (rabbit) 117, 319

vasomotor mechanism affected by (dog), 134 SP

water duresis affected by (dog), 128 125

- Adrenaline, water diuresis in medullecto mized animals affected by (rat), 118, 493
- Adrenaline hyperglycaemia, pituitary fractions containing ACTH and intermedin effect on (rabbit) (T), 121, 22 P
- Adrenaline hyperpnoea, acid base changes in arterial blood during (man), 122, 39 P. 124, 213
- Adrenaline intravenously, arterial blood adrenaline following (rabbit), 128, 520
- Adrenaline iontophoresis, skin circula tion affected by (man), 128 259
- Adrenergic amines, insulin effect on blood (man), 122, 42P
- Adrenergic nerves, blocking action of choline 2 6 xylyl ether bromide on (cat), 133, 70 P
  - preliminary experiments on mode of action of choline 2 6 xylyl ether bromide on (rabbit), 133, 70 P
- Adrenocortical hormones, heart weight and blood pressure after hypophys ectomy affected by (rat), 124, 75
- Adrenocorticosteroids, heat exposure ef fect on urmary excretion of (man) (T), 129, 26 P
- Adrenocorticotropic hormone, assay on thymus of nestling rat of (T), 117, 2P demedullated animal's release of (rat), 118, 588
  - eosinophil count affected by (horse), 130, 705
- Adrenocorticotropic hormone, hypothermic action of (T), 117, 2P
  - pregnancy affected by (mouse and rabbit) 116, 236
  - thyroid activity affected by (rabbit), 126 42 (rat and rabbit), 131, 58
- Adsorption, odours and (man), 125, 458
- Adult body measurements, prediction from measurements at 1-5 years of (man), 132 36P
- Aerosol, recording of cough produced by (man), 133, 67 P
  - sensitization by (guinea pig) 124 34P sensitization by antigen containing
- (guinea pig), 127, 564

  Aeshna larva, optic lobe electrical responses
- in, 133, 79
  Afferent excitation, interaction from allied paths of (cat) 122, 314
- Afferent nerve, cold effect on conduction in (cat), 130, 54
- Afferent nerve systems in muscle (cat), 117 156
- Africans, skin protection against sunlight in Europeans and in (man) 127 236

- Africans, sweat gland distribution in Europeans and in (man), 123, 225
- After bursts, cerebral cortex (unanaes thetized, isolated) showing (cat) 125, 427
- After-discharge, facial pit organ showing (snake), 134, 66
- 'After-drop', significance in venous or clusion plethysmography of (man), 131
- After-image, eye movements during fixation measured by (man), 116, 300
  After-potential, factors affecting moto-
- neurone (cat), 130, 311 optic nerve fibre groups showing (cat),
- 121, 425
  Age, accommodation with convergence
- affected by (man), 128, 107
  aqueous humour penetration by p
  amino hippurate affected by (rabbit),
  129, 122
- arterial pressure relation in sample of general population to (T), 122, 37P
- endogenous creatinine clearance affected by (man), 118, 454
- heart rate affected by (man) 131, 22P
- haemoglobin and packed cell volume varia tion with (cat), 133, 72 P
- hot environment effects affected by (man),
  133 118
- infundibular process vascular pattern affected by (man), 118, 21 P
- pseudo cholinesterase activity of secre tions and organs affected by (pig), 122, 188
- renal blood content affected by (rabbit), 132, 13P
- secretin content of intestine affected by (rat), 118, 190
- skin histamine content affected by (rat), 124, 157
- spleen weight affected by (dog), 129
- sugar distribution between cell and plasma affected by (mammal), 134, 88
- sweat gland activity affected by (man), 133, 132
- tissue histamine and 5 hydroxytryptamine affected by (rat), 133 71 P
- water and solute exerction affected by (dog), 129, 628
- Alanine, absorption rate and gastric emptying and concentration in blood of (rat), 124, 66 P
  - intestinal specific absorption of L-isomer of (cat) 116, 20P
- of (cat) 116, 20P renal clearance of isomers of (cat), 122, 3

- Alanine, renal clearance of stereo isomers of (cat), 116, 19P
  - synthesis of L from D (rat), 125, 65P temperature effect on transference through
- intestinal wall of (cat), 122, 76P Alcohol, duodenal acid effect on gastric
- acid secretion promoted by (dog), 130,
- Alimentary canal sphincters, function of, 125 27P
- Alimentary osmoreception (T), 131, 29P Alimentary osmoreceptor mechanism, some properties of (man), 132, 267
- Alkaline phosphatase, distribution in small intestine of (T), 128, 63P
  - phlorhizm action on intestmal (rat), 134,
- Alkalosis, potassium excretion affected by (dog and man), 121 35
- Aliantoic fluid, mositol content of (mam mal), 126, 75
- All or none law, potassium action on heart (rat), 123, 1P
- Alloxan, blood pressure affected by (rabbit), 118 9P
- Alpha efferents, cerebellar control of muscle (cat), 130, 213
- Alpha-rhythm, cortical neurone discharge affected by (cat), 121, 127
  - demonstration for teaching purposes (T),
  - visual attention' and (man), 120, 155 usual reaction time and (man), 118 500
- Altitude, renal water and cation excretion at moderate (man), 120,58P
- Alveolar carbon dioxide concentration, ory gen, inhalation effect on (man), 127,
- Alveolar carbon dioxide tension, con tinuous measurement under anaesthesia of (cat) (T), 122 69 P
  - exercise effect on (man), 125, 95
  - forearm blood flow affected by changes in (man) 118 540
  - oxygen administration in exercise effect on (man), 125 123
  - sleep and night effect on (man), 122, 66 sleep effect on (man) 120 10P
- Alveolar-capillary diffusion equation, device for solving (T) 133 27P
- Alveolar nitrogen concentration, ex piratory gas flow rate effect on (man), 134 637
- Amine oxidase, adrenaline and nor adrenaline inactivation of (man), 118
  - adrenal medulia containing (guinea pig), 124 188

- Amine oxidase, cholme ary l ethers inhibi tion of (cavy), 118, 15P
  - denervation effect on content in ear artery of (rabbit), 121, 607
  - denervation effect on content in nictitating membrane of (cat), 116, 21 P
  - deners ation and restoration of (cat), 117. 35P
  - distribution in skin of (mammal), 129, 454 earthworm gut containing, 120, 445
  - histochemistry of (rat and guinea pig), 122, 419
  - intracellular granules of adrenal medulla containing (ox), 129, 44
  - nictitating membrane hypersensitivity after denervation relation to content of (cat), 120, 224
  - thyroid effect on sorta (rabbit), 117, 35Ptissues containing (cephalopods), 118, 88
  - Amines, histamine release by (guinea pig), 119, 48P
    - pain producing action and chemical struc ture relation of (T), 119, 31 P
    - X irradiation protection by (mouse), 118, 24P
  - Amino acids, absorption from small in testine in vitro of L-isomers of (rat), 120.
    - active transport by sacs of everted small intestine of (golden hamster), 133, 626
    - denervated sympathetic ganglion res ponses affected by (cat), 130, 158
    - excretion of enantiomorphs of (cat), 122, 1 heart usage of 14C labelled (guinea pig), 117, 9P
    - intestinal absorption of enantiomorphs of (cat), 126, 96
    - partial hepatectomy effect on blood and liver (rat), 124, 443
    - preferential transference by sac of everted small intestine of (hamster), 127, 414
    - small intestine absorption of (rat), 121,
    - small intestine metabolism in vitro of (rat), 130 278
    - synthesis from water, hydrogen, methane and ammonia of, 132, 28P
  - Aminopterin mactivation by tissues of (chick), 123, 623
    - mitosis affected by (various), 123, 607
  - Amino-steroid cardiac actions of (rabbit). 129 10P
  - Ammonia excretion, adult and young capacity for (dog) 124, 364
  - Ammonia, glutamine effect on kidney slice production of (mammal), 124, 8
    - kidney slice formation of (mammal), 124, 1

Ammonium salts, cerebral cortex sec tions metabolic activity affected by (guinea pig), 117, 478

Ammon's horn, stimulation in (rabbit), 129, 611

Amnion reactions to stretch and electrical stimulation of (chick), 132, 31 P

Amniotic fluid, glucose transfer to (mon key), 132, 299

hexamethonium bromide appearance in (rabbit), 116, 4P

hexamethonium excretion into (rabbit) 122, 95

mositol content of (mammal), 126, 74
pregnancy duration effect on volume of
(rat), 128 231

Amniotic membrane, fructose, glucose and mositol permeation in vitro of (sheep) 120, 26 P

Amoeba, factors affecting 'metaplasia' of, (T), 132, 45P

Amphetamine, brain electrical activity in conscious animal affected by (cat) 120, 13 P

hypothalamic electrical activity affected by (cat), 132, 358

substance P and 5 hydroxytryptamine in brain affected by (dog), 131, 621

Amplifying circuit, for use with capacitance manometer (T), 132, 53 P

Anaesthesia, adrenaline action on liver blood flow affected by (rat and rabbit), 120, 79

blood volume affected by (cat), 124, 45 P body temperature response to cold af fected by (rat), 133, 340

central response to extraocular muscle stretch affected by (cat), 128, 183

duodenal electropotentials affected by (dog), 132, 102

joint passive movement sensation af fected by (man), 126, 454

lungs compliance during (T), 133, 58 P reticulo ruminal movements affected by (sheep and goat), 131, 249

rotational nystagmus response to repeated stimulation affected by (rabbit) 124, 138

Anaesthetics, antidiuretic hormone con tent in plasma affected by (rat), 122, 153

baroreceptor activity affected by (cat), 128, 6P

baroreceptors affected by (cat) 131, 463 brain acetylcholine content affected by (mammal), 125, 56

pyramidal neurones action potentials affected by (rabbit), 129, 622 Anaesthetics, sympathetic ganglia meta bolism and transmission affected by (rat), 130, 456

tracheobronchial receptors affected by (cat), 123, 95

vagotomy effect on breathing and heart rate affected by (rat), 130, 54P

Anaphylactic shock, antihistamines action in (guinea pig), 118, 34P

cortisone effect on (guinea pig), 118, 7P histamine releasers comparison with

(guinea pig), 118, 461 hydroxytryptamine shock and (guinea

pig), 128, 438 lung releasing unidentified substance in

(guinea pig), 120, 16P

Anaphylaxis, inhibition in vitro and in tire

Anaphylaxis, inhibition in vitro and in the of (guinea pig), 132, 30P inhibition of, 130, 40P

intracellular particles of lung affected by (guinea-pig), 126, 44 P

'microshocks' of constant strength in (guinea pig), 117, 251

repeatable microshocks of constant strength in (guinea pig), 116, 28P

Anelectrotonus, end plate potentials af fected by (frog), 124, 589

Anions, motoneurone excitatory postsynaptic potential affected by (cat), 130, 389

motoneurone inhibitory post synaptic potential affected by (cat), 130, 352

Ankle jerk, method of investigating (man)
(T), 127, 5P

Anodal polarization, Pacinian corpuscle action potential affected by, 133, 56

Anode, desheathed nerve and break excitation at (frog), 131, 243

Anoxaemia, heavy exercise and causes of (man), 125, 128

Anoxia, cardiac muscle exchange of sodium affected by (rat), 129, 180

cardiac muscle response to sodium af fected by (rat), 130 617

hexamethonium effect on carotid body

response to (cat), 118, 375 intestinal paralysis caused by (dog), 118,

pulmonary blood vessels site of action of

(cat), 125, 373
pulmonary vasoconstriction resulting
and its site of action (cat), 117,

78 P
pulmonary vasomotor responses in 190
lated perfused lung to (cat) 117,
303

respiratory depression in new born by (man), 125 628

Anoxic anoxia, polyuria with (man), 116, 3P

Anterior pituitary adreno-cortical response, hypothalamic control of (cat), 127 153

Anterior pituitary extract, intestinal secretin affected by (rat), 119, 271

Anterior pituitary gland, hypophyseal portal blood supply arrest producing necrosis of (rat), 133 4P

Anterior poliomyelitis, blood flow changes in feet in (man) 120 24 P

Anti-aneurins, anaesthetic action on sen sory nerve-endings of (frog), 117 64P

Antibiotics, histamine excretion affected by (rat) 125 536

Anticholinesterase drugs, Renshaw cell activity affected by (cat) 131, 162

Anticholinesterases, adrenalme action on ileum affected by (guinea pig), 118-173 auricular fibrillation caused by electrical stimulation and (H L) 128-4P

facilitation prolongation by (electric eel), 130 24P

heart lung preparation affected by (dog),

respiratory failure caused by (rabbit), 126, 52

Antidiuretic activity intracellular localization in pituitary of (rat), 127 208

Antidiuretic activity of vasopressin, kidney and liver mactivation of (rat), 126, 116

Antidiuretic assay (rat) (T), 119 7P Antidiuretic hormone, assay of very small

amounts of (rat) 122 149
excretion after injection of (rat) 124 464

secretion rate of (rat) (T) 120, 59 P tissue homogenates inactivation of (rat).

132, 199
Water and sodium transport in ladner

water and sodium transport in kidney slices affected by (rabbit), 133 294 Antidiuretic hormone excretion, dehy

dration effect on (rat) 122 57P Antidiuretic substance, fainting effect on

excretion of (man) 122 220 Antidromic activation, motoneurone

intracellular recording of (cat) 122,

Antidromic impulses, dorsal roots showing (cat) 121 264

Antidromic inhibitory post-synaptic potential, mechanism of (cat), 126 526 Antidromic response, motoneurone show

ing (cat) 130 300 Antidromic vasodilatation, cholinesterase inhibitors action on (rabbit) 120, 95 ear blood flow and (rabbit) 125 138

Antidromic vasodilatation, isolated per fused ear showing (rabbit), 131, 176 site in ear of (rabbit) (T), 118, 44P support of Bayliss's hypothesis of reflex

support of Bayliss's hypothesis of reflex (T), 122, 34P

Antigen-antibody reaction, histamine and serotonin liberation from platelets by (rabbit) 119, 43 P

histamine role in cutaneous (rat) 129, 205

Antigen, histamine release from cell con stituents by (guinea pig), 131 212

platelet release of histamine and serotonin in antibody reaction with (rabbit), 128, 9

Antigen inhalation, sensitization by (guinea pig), 127, 564

Antihaemophilic globulin, thrombo plastin formation and (man), 119, 95

Antihistamines, anaphylactic shock af fected by (guinea pig), 118, 34P

histamine release by (man and guinea pig) 119, 47P

vasodilator phenomena investigation by (man), 123, 75P

Antipyretic drugs, anaphylaxis inhibition by (guinea pig) 132 30 P

Anus, control of external sphincter of (cat), 134, 229

Aorta, thyroid effect on amine oxidase of (rabbit) 117, 35P

turbulent flow in (rabbit), 118 340 velocity of flow in (rabbit), 118, 328

Aortic baroceptor impulses, laryngeal pathway for (T), 123 39P

Aortic baroceptors, larvngeal pathway of impulses from (rat) 125, 352

Aortic bodies, chemoreceptor activity in (cat) 134 319

study of (cat), 128 76P

vasculature of (cat) 134 311

Aortic constriction, heart weight affected by (rat) 124, 49

Aortic depressor nerve, anaesthetics effect on discharge from single fibres of (cat), 131, 464

Aortic nerve, blood pressure and respira tory responses to stimulation at varied intensity and frequency of (cat), 132, 178

carotid sinus baroceptor afferent fibres in (cat) 126 40P

depressor reflexes from medullated and non medullated fibres in (rabbit) 132, 187

depressor responses from stimulation of fast and slow conducting fibres in (rabbit) 130, 12P

```
Aortic nerve, non medullated afferent C
    fibres in (rabbit), 134, 168
  pressor and depressor effects on stimula
    tion of (cat), 128, 10P
  pulsatile and non pulsatile stimulation of
    (rabbit) 131, 36P
  reflex depressor responses affected by
    pattern of electrical stimulation of
    (rabbit) 133, 232
Aortic occlusion, urine osmolarity during
    'water' diuresis affected by (dog), 131.
    309
Aortic receptors, hydroxytryptamine effect
    on (cat), 123 281
Aortic valve incompetence, glucose usage
    of isolated heart affected by (rat), 123,
    269
Aphagia, hypothalamic lesions causing
    (cat and monkey), 127, 144
Apparatus, adjustable constant volume in
    jection syringe, 124, 55P
  analysis of light reflected from eye of cat.
    117, 47P
  automatic refilling water container, 121,
    37P
  balance flow meter, 133, 27P
  bench espiscope, 125, 3P
  blood outflow recorder, 117, 45P
  blood viscosity continuous measurement.
    116 16P
  breathing capacity measurement (man).
  cathode ray tube, multichannel for photo
    graphic recording 119, 32P
 ciné camera (35 mm) incorporating a
    Philips X ray image intensifier, 126.
    1P
 condenser manometer for
                                heart rate
    measurement, 121 29P
  conductivity model of human thorax,
    116, 15P
 constant water load maintenance (rat)
    122. 144
 continuous intravenous reinfusion of
    lymph (rat) (T), 133, 1P
 Cossor camera modifications, 128, 2P
 counter chronometer method for re
    cording pulse wave velocity 129, 27P
 cry oscopic, for studies on aqueous humour
    and \mathtt{csf} , \mathtt{124} , \mathtt{12}P
 density flowmeter for blood flow measure
    ment, 121, 72
 direct coupled oscilloscope preamplifier,
    117, 15P
 double pulley for giving linear magnifi
    cation for kymograph recording 118
```

19P

drop counter, photo-electric, 123, 64P

```
Apparatus, electronic circuit for measuring
    voltage time integral, 123, 28P
  electronic colloid osmometer, 123, 18P
  erythrocyte volume change recording
    120. 20P
  film records analysis, 127, 25P
  flash photolysis, 134, 113
  flowmeter, improved electric, 127, 1P
    integrating soap film, 124, 6P
    recording, 124, 10P
  folding cage for cats, 116, 11P
  freeze drying of tissues, 121 36P
 frog heart lever, 128 32P
  y active radio isotopes, equipment for
    study in small animals of, 118, 18P
 gas analysis for student use, 122, 7P
 glass microelectrode for measurement of
    pH in large cells, 124, 1P
 Haldane gas analysis apparatus modifica
    tion for use by junior students, 124
 hand plethysmograph, water filled with
   temperature control, 123, 62P
 heart lung machine for man 127, 51P
 histological projection drawings, 121, 35P
 hypotonic haemolysis, 133, 27P
 infusion over long time, 117, 18P
 interfacial tension determination, 121,
 interference microscope, high power, 125,
   11P
 internal calorimetry automatic recorder,
   124, 49P
 intestinal absorption in vivo (rat), 128,
   67P
 intestinal absorption in vitro, 121, 2P
 ion movements study (mammal), 119, 5P
 isometric lever for small forces, 122, 8P
 jugular phlebogram by microphone (dog),
   121 25P
leak proof, circulating fan, 123 15P
low pressure chamber 124, 54P
lung pressure volume diagram determi
   nation, 119, 2P
magnetic tape recording reproduction of
   waveforms of nerve activity, 125, 13P
manometer, 125, 4P
manometer, differential and single pres
  sure measurements, 127, 2P
Mariotte constant pressure device im
  proved form of, 118, 4P
microcalorimeter, simple, 123, 51P
micro gas analysis simple method, 117,
  16P
micromanipulator for spinal cord poten
  tials (cat), 125, 603
microprojector, double, for comparing
  histological preparations 118, 17P
```

Apparatus, multi-channel recorder using pulse time multiplex techniques, 126, 7P

nerve impulse frequency direct recording,  $121 \ 31P$ 

optical manometer for recording pressure in bladder, 121 25 P

o-cillographic display of two shortlatting wave forms separated by long interval, 127 3P

oxygen box with 95% O<sub>2</sub> 127 50P perfusion method, 121 97

perfusion pump all plastic 132, 32P perfusion pump small (rabbit) 129

37P
Perspex drop chamber 117 48P
Perspex float volume recorder 116 12P

photoelectric rapid measurement of blood oxygenation 120 43P

pneumotachograph light-weight integrating motor with constant low resistance 123 67P

pressure volume diagram recorder for respiration (man) 124 6P

Pulfrich effect measurement 124 2P pulse counting portable ecg pre amplifier for 129 4P

pulse interval plotter 134, 50 rabbit head holder 123 22P

rapid changes of pressure in gut measure ment (man) 120 36 P

rapid reactions study 117 49P

ratemeter for heart quick response 129

recording audiometer 131 4P
respirators amplifier automatic 11

41P
respiratory anemometer 127 25P
respiratory valve light weight 124 5P
respiratory valves low resistance low

dead space 124 4P roller pump for long-continued con muous infusions 128 29P

ro ameter for recording blood flow modi fied 125 9P

rota ing chair new type of 123 22P scintillation /-counter for radiopotashum 116 44P

wive regulated ink recorder for plain muscle 124 SP

chin conductivity measurement by port able 127 44P

kin resistance meter constant current 116 1P

122 1P

spirometer for high respirators rate 119

Apparatus, stereotaxic instrument, fine control of electrode movement in (mammal), 129 5 P

stereotaxic instrument inexpensive precision 123 15 P

stimulator simple general purpose 132 21 P

strain gauge dynamometer for measure ment of isometric contraction 127 48*P* 

strain gauge measurement of limb volume changes (man), 121 2

sweep expander for use with Cossor 1049 oscilloscope, 129, 5P

syringe pressure transducer for recording intra uterine pressure 124 10P

systolic blood pressure measurement by electrical method (rat) 121 163

thermal circulation index measurement 125 6P

thermal conductivity measurement of animal tissue 120 35P

thermocouple very small with low stem errors 129 1P

three syringe constant injection, 127 43 P

time marker and vibrator inexpensive 117 43P

toposcope twelve-channel transportable 124 51P

transistor relaxation oscillator stimulator 128-27P

transparent electrical screen, 117 46P two-channel chronograph, 123, 16P

vibrator for kymograph recording 116, 43P

visual discrimination testing in cats, 116 45P

voltage clamp for axon membrane (Loligo), 116 426

water metering device for operating and measuring output of blood pump 125 1P

Apvrase, errthrocyte stroma containing (man) 116 114

Aqueous humour, acidosis effect on rate of flow of (rabbit) 130, 27P

ascorbic acid concentration in (rabbit) 130, 1

ascorbic acid transfer effect on lactic acid concentration in (rabbit) 124 26P

bicarbonate content of vitreous plasma and c.s.r compared with (mammal), 132 454

blood exchange with (rabbit), 123, 54P carbonic anhydrase inhibitor effect on circulation of (rabbit), 128, 78P

Aqueous humour, carotid occlusion and preganglionic cervical sympathotomy effect on composition of (rabbit), 128, 42 P 133 31

cerebrospinal fluid comparison with (rabbit), 129, 111

chloride distribution between plasma and (various), 116, 47P

ery oscopic apparatus for measuring osmotic pressure of, 124, 12P

diamox and acidosis effect of ascorbic acid concentration in (rabbit), 130, 27P

growth hormone effect on transfer of glucose from blood to (rabbit), 127, 247 insulin effect on glucose passage from blood to (rabbit), 116, 414

water soluble large molecules penetration into, 122, 10P

Area postrema, innervation of (mammal), 124, 23 P

substance P and 5 hydroxytryptamine in (dog), 126, 604

Argentaffine cells, yellow pigment of 125, 22P

Arm, leg exercise effect on blood flow in resting (man), 133, 60 P

position effect on heat elimination from fingers (man), 127, 11 P

position effect on oxygen saturation of effluent blood from (man), 127, 11 P

venous blood oxygen saturation affected by position of (man), 129, 281

Arterial blood, haemorrhage effect on oxygen content, tension and saturation of (cat), 125 77

Arterial blood gases, diffusion respiration effect on (dog) 133, 349

Arterial blood gas tensions, alveolar air gas tensions relation to (man) 125, 109

Arterial flow, velocity profiles of oscil lating (dog), 128 629

Arterial gas embolism, vasodilatation following (man) 122, 26 P

Arterial oxygen saturation, birth and en suing hours effect on (sheep), 128 367 ductus arteriosus diameter affected by (sheep), 132, 311

ductus arteriosus occlusion after birth effect on (sheep), 128, 369

foetal age and (sheep) 130 195

Arterial pressure, abdominal viscera dis tension effect on (cat), (T), 122, 68 P

adrenocortical hormones after hypophys ectomy effect on (rat), 124 75

aortic and carotid sinus nerves stimulation at varied intensity and frequency effect on (cat), 132, 174 Arterial pressure, aortic blood flow velocity relation to (rabbit) 118, 337 Bambridge reflex independence from (dog), 130, 678

carotid body blood flow affected by (cat), 125, 73

carotid sinus pulsatile and non pulsatile flow effect on (cat), 118, 512

cerebral blood flow affected by changes in (mammal), 133, 20

coughing effect on (man), 122, 352

differential coefficient of (dog), 127 o38 diffusion respiration effect on (dog and cat), 133, 362

direct recording of (man), 118, 55P ductus arteriosus occlusion in newborn effect on (sheep) 128, 371

foetal age and (sheep), 130, 194 flow relationship to (dog), 127, 533

gall bladder stimulation affecting (cat)
119, 46P

growth hormone after hypophysectom, effect on (rat), 124, 64

hydroxytryptamine action on (cat), 118, 435

hypothalamic lesions effect on (cat), 131, 411

hypothermia and reanimation effects on (rat), 128, 455

left ventricle weight relation to (rat), 124, 57

liver blood flow affected by (rat), 126, 418

hver blood flow affected by changes in (rat and rabbit), 120, 85, (rat), 123, 577

noradrenaline action on muscle blood flow affected by (cat), 120, 110

noradrenaline effect in normal and hyper tensive state on (rabbit), 127, 71

parturition effect on (rabbit) 125 44 pressure breathing effect on (man) 123, 36 P

respiratory variations in (man) (T), 116

spleen regulation of (dog), 122, 209 spleme function in cerebral cortex stimu lation effect on (cat), 129, 547

Arterial pressure, ventilation effect in foetus on (lamb), 118, 14

Arterial pressure receptors, conduction velocity of nerve fibres from (cat), 121 348

Arterial pulse, equivalent circuit in analysis of 130, 20 P

Arterial tissue, respiration of (T), 130, 1P Arterial wall, collagon and elastin content of (dog), 127, 33P

- Arterio-venous anastomoses, ear skin and perichondrium containing (calf), 121 46P
- Arterio-venous fistula, venous return regulation by means of (dog) 130 674
- Arterio-venous oxygen difference, carotid body showing (cat) 125 76 muscle and skin (man) 128 270
- Artery, calculation of velocity rate of flow and viscous drag in, 127, 553
- cholinesterase activity of (mammal) 121 623
- denervation effect on (rabbit) 121 603 elastic properties of (cat) 122 291
- high speed cinematography recording of flow patterns in (Film) (T) 116 3P
- measurement of tension changes in walls of perfused (rabbit) 132 1P
- o-cillating flow in, 127 38P
- pulsatile lateral expansion of (rabbit) 119, 28 P
- pulsatile pressure,flow relationship in (dog) 127 533
- velocity changes during cardiac cycle in (dog) 120 257
- velocity profiles of flow in (dog) 128 631 Arthus reaction, skin histamine depletion effect on (rat) 129 216
- Articular nerves, effects of stimulation of (cat) 128 83 P
- Artificial circulation, revised model (T),
- Artificial diet, kittens reared on 121
- Artificial respiration, methods of (T),
  - recommendations of XVIII International Red Cross Conference on methods of (T) 119, 51 P
- Ascending mesenteric nerve, effects of stimulation of (rabbit) 118 116
- Ascorbic acid, animal rearing on diet con taining (guinea pig) 121, 36P
  - aqueous humour and cerebrospinal fluid (rabbit) 129 113
  - agurous humour amons after carotid arters occlusion affected by (rabbit) 133 32
  - hexoestrol action on adrenocortical (rat)
    130 608
  - plasma flow across chiary processes measurement by (rabbit) 130 1
  - water loading effect on adrenal (rat) 118
- Ascorbone, erythrocyte reduction of (man)
  126 54P
- Asphytia, aldominal mu cles electromy o gram affected by (man) 117, 227

- Asphyxia, cortical neurone discharge affected by (cat), 121, 129
  - dorsal root potentials affected by (frog), 133 436
  - ductus arteriosus constriction response to (lamb) 132, 315
- Athlete, pulmonary diffusing capacity in exercise of (man) 129 247
- Atmospheric humidity, electrical impedance of Jason element as index of (T) 127, 45 P
- Atoxylic acid, esterase in normal and postheparin plasma affected by (man and dog), 127 304
- ATP, adrenal medulla distribution of catechol ammes and of (ox) 133 548
  - breakdown at 0°C in ground muscle and kidney of (mammal) 130 432
  - dimitrophenol action on skeletal muscle (rat) 130, 590
  - dmitrophenol effect on plain muscle (guinea pig) 127 631
  - firefly luminescence determination of (T) 126, 11P
  - forearm and hand blood flow affected by (man) 125, 581
  - histamine liberators reaction with (cat), 131 13P
  - lateral ventricle injection of (cat) 123
  - muscle fibres affected by Marsh' factor and (rabbit) 121 235
  - plain muscle containing (guinea pig) 131, 705
  - plain muscle tension and work with changes in (giunea pig), 128, 38 P
  - rigor mortis and changes in (horse), 121
  - sensory nerve ending transmission by, 119, 50P
  - spinal nerve roots containing (horse) 126
  - ununolecular films of myosin and acto myosin affected by 116 34P
  - ATP-ase, 'Marsh factor effect in muscle fibre on activity of (rabbit) 121, 242
  - Atrial pressures, carotid sinus nerve stimulation effect on (dog), 131 228
    - intrapleural and mediastinal pressures relation to (T) 122 69 P
  - measurement of effective (dog) 126, 304 Atrial receptors (dog), 132 68P
  - conduction velocity in type B (cat) 121, 347
    - response on left and right side of (cat), 120 596
  - Atrial stretch receptors, urme flow affected by (dog), 131 572

Atrium, receptor response to graded filling of isolated (cat) 120, 604

Atropine, acetylcholine stimulation of carotid sinus receptors affected by (cat) 130, 521

adrenaline action on ileum affected by (guinea pig) 118, 176

bladder contraction on nerve stimulation affected by (cat) 127, 58

blood flow in hand and forearm affected by intra arterial infusion of (man), 131, 639

blood flow of finger exposed to cold affected by (man) 121 51

brain electrical activity in conscious animal affected by (cat) 120, 14P

bronchomotor tone affected by (dog), 116, 40

colon response to pelvic and sympathetic nerve stimulation affected by (rabbit) 128 568

correlation between block and esterase for (rabbit) 128 71 P

dorsal and ventral root potentials affected by (T), 118 50P

heart lung preparation affected by (dog) 124 491

hydroxytryptamine antagonized by (rabbit and guinea pig) 121 54P

lateral ventricle injection of (cat), 123, 157

liver blood flow affected by (rat) 123, 577 membrane potential, spike discharge and tension of taenia coli affected by (guinea pig), 128, 209

plain muscle oxygen consumption affected by (guinea pig) 122 129

pulmonary arterial pressure response to sinus nerve stimulation affected by (dog), 131, 231

sarın and TEPP actions on circulation affected by (dog), 133 488

skeletal muscle post contraction hyper aemia affected by (cat), 120 239

TEPP poisoning of respiratory centre antagonized by (cat) 116, 206

Audible fluctuations in 0 1-20 c/s range, method of (T), 123 28 P

Auditory area, electrical responses from (cat and rabbit), 124 258

Auditory cortex, inter relations within (cat) 123 43P

single unit activity in (cat) 126 25P

Auditory inhibition, strychnine action on (cat), 134, 12P

Auditory ossicles, stroboscopic illumi nation of movements of (man), 116 175 Audiogram, pitch intensity relation with dip in (man), 129, 225

Audiometer, recording, 131, 4P

Aureomycin, histamine excretion affected by (rat), 125, 539

Auricle, acetylcholine effect on conduction velocity in isolated (rabbit), 126, 3P carbamylcholine and acetylcholine effect

on (cat), **120**, 451

carbon dioxide, bicarbonate and pH effect on electrical and mechanical activity of (rabbit), 129, 90

cholinesterase activity and eserine sensitivity of (rabbit), 123, 204

cholinesterase activity of right and left (rabbit), 126, 623

cooling effect on (rabbit), 131, 187 eserine action on (rabbit), 121, 360

eserine action on isolated (rabbit), 118, 31 P

low temperature effect on isolated (rabbit), 128, 4P

negative motropic effect in (cat) 120 449 pacemaker potentials at low tempera tures in isolated (rabbit) (T), 129 3P

refractory period of isolated (guinea pig and rabbit) 132, 610

resting and action potentials of (cat) 119,

sensory receptors in (cat), 119, 10P

Auricle stimulation, acetylcholme effect on results of (H L) 128, 280

Auricular fibrillation acetylcholine and auricle stimulation causing (H L), 128, 283

acety leholine causing (H L), 131, 324 electrical stimulation with anticholin esterase producing (H L), 128, 4P

potassium effect on electrically stimulated and acetylcholine induced (H L), 131, 8 P

Auricular pressure, left and right men surement with unopened chest of (deg) 122 65 P

measurement of effective (dog), 126 304
Auriculo-ventricular block, acetylcholme
production of (H L), 128 280

Authors, suggestions to, 116, 1

Autolysis, ground tissues at 0° C showing (mammal), 130, 427

Automatic syringe withdrawal, arterial and cerebral venous blood sampling by (T) 121, 13P

Autonomic drugs, small intestine response to electrical stimulation affected by (guinea pig) 120 41

Autonomic nerves, peripheral termina tions of (T), 132 70P

Autonomic nervous system, circulatory control in foetus by (sheep), 134, 153

Autotransplanted kidney, adrenal and overy technique for study of behaviour of (dog), 124, 15P

emotional antidiuresis in (dog), 128 122 A-V bundle, potassium and sodium con tent of (ox), 118, 278

A-wave, scotopic component in retinal electrical response of 118, 289

Axon, current voltage relations in mem brane of (Loligo), 116, 424

metabolic inhibitors effect on sodium movements in (Loligo and Sepia), 120 45P

potassium absorption and sodium extru sion from (Sepia) 120, 46P

recovery from fatigue affected by sever ance from cell body of (rabbit) 120, 378

sodium and potassium ionic currents through membrane of (Loligo) 116, 449

Axon reflex, multiple innervation of skeletal muscle fibres shown by (frog), 126, 299

post contraction hyperaemia due to (cat), 123 289

skeletal muscle post contraction hyper aemia involving (cat) 120 238

Axon-soma transmission, nature in motoneurone of (cat), 122 455

Axoplasm, potassium mobility and diffusion coefficient in (Sepia) 119 513

Axotomized ganglia, acetylcholine meta bolism of (rat), 124, 113

Axotomy, sympathetic ganglion affected by post ganglionic (cat), 127, 603

Azide, pulmonary vasomotor responses in isolated perfused lung affected by (cat) 117, 310

sodium efflux from axon affected by (Sepia) 128 37

sodium transport in erythrocytes affected by (man and chicken) 129 492

Azure A heparin action on plasma esterase activity affected by (dog) 123 304

Azygous vein, haemorrhage effect on blood flow in (dog), 121 83

Baby pig, laboratory animal 124 52P
Bainbridge reflex, conditions necessary
for elicitation of (dog) 128 310
factors affecting (dog) 130 674

Balance flow-meter, blood flow recording by 133 27 P

BAL, blood sugar affected by adreualine and (rabbit) 118 479

Banthine', gastric motility and pulse rate affected by (man), 121, 53P

lateral ventricle injection of (cat), 123, 155

Barbiturate anaesthesia, cortical neurone discharge affected by (cat) 121, 130

Barbiturate spindles, hypothalamus regions showing (cat), 132, 359

Barium, botulinum toxin effect on response of gut to (mammal), 127, 466

nicotine action on plexus free circular muscle of jejunem affected by (cat) 119 384

plexus free circular muscle of jejunem affected by (cat), 119 388

Baroceptors, action potentials in common carotid (T), 130, 32P

anaesthetics action on sensitivity of (cat)
128 6P

anaesthetics effect on (cat) 131 463

laryngeal pathway of impulses from aortic (rat) 125, 352

new area in carotid artery of (cat), 122, 70P

Baroceptor areas, arterial wall modification at (cat), 125, 42P

nervous structures in (cat), 124, 43P

Baroreceptor reflexes, isolated carotid sinus and method for eliciting (dog) 128 33 P

tabes dorsalis affecting (man) 134, 1

Bearing-down, factors concerned in (hen)
128 249

Beetle, acetylcholine content of head of, 134 251

Benzaldehyde, olfactory membrane ad sorption of (sheep) 130 547

Benzidine, blood glucose determination by, 132 3P

Benzoylcholine, acetylcholme action af fected by (various) 117 41P

muscle relaxant action of (rabbit) 122
76P

B-Erythroidine, Renshaw cell activity affected by (cat) 131, 165

Bicarbonate, aqueous humour c.s.r and plasma (mammal), 130 48P

auricle conduction velocity and rate affected by (rabbit), 129, 96

gastric emptying time affected by test meal containing (man), 132 276

ocular fluids c.s.f and plasma content of (mammal), 132, 454

Bile duct, blood histamine affected by obstruction of (dog), 120 427

Bile glucose, phlorhizm effect on (dog), 133, 20P

Bile salts, histamine release from liver effected by (dog and H L L), 120 424 skin histamine release by (dog), 116, 10*P* Bile, secretion by isolated perfused liver of

(dog), 132, 6P

Biliary pressure, continuous recording post operatively (man) (T), 119, 31P

Binocular fixation, involuntary eye move ments during (man), 119, 6

Binoculars, steep frequency of seeing curves by use of (man) 126, 405

Birth, foetal circulation changes at (mam mal), 133, 202

renal function before and after (man) 118, 61P

Blackness, off effect giving sensation of (man), 134, 18 P

'Black-out', antidiuretic substance excretion and (man), 122, 231

Bladder, assessment of voluntary emptying of (man) 129 408

cardiovascular responses in paraplegic patients to distension of (man) 121 581

healing of artificial ulcers in (T) 128 63 P innervation of (cat) 127 54

optical manometer for recording pressure in 121, 25 P

posture effect on pressure in (man) 129 448

receptors in (cat), 126, 29P

tension receptors in (cat) 128 601

ureteric activity affected by pressure in (mammal) 129, 439

Bleaching, dark adaptation effect on eve response to (guinea pig), 127 576

difference spectra of retinal extracts obtained by (Xenopus), 125, 32

Bleaching spectrum (squirrel) 127 589 Bleak, visual pigments in, 128, 131

visual receptors of (T) 117 54P

Blister fluid, cutaneous pain responses to (man) 120, 339

pain producing substance in (man) 117, 4P

Blood, age and species effect on cell/plasma sugar distribution in (mammal), 134-88 carbon monoaide dissociation curve of (sheep), 126-371

cation exchange in (chicken), 118, 36P composition of (chicken and tortoise), 125, 265

glass activation of pharmacologically active agents in (mammal), 129 80 P glucose and fructose simultaneous mea

surement in, 116 18P hydroxytryptamine concentration in (man), 129 24P Blood, hydroxytryptamine content of arterial and portal (dog), 126, 250

131 Iodine after intravenous injection in

(rabbit), 126, 7

optical properties studied by filter photo metry (T), 133, 6P oxytocin assay in (rat) 126, 588

vasoconstructor activity of (rabbit) 128
511

Blood acetylcholine, TEPP action on (cat), 124, 331

Blood adrenaline, exercise effect on (horse), 128, 50P

msulin hypogly caemia effect on (dog and man), 125, 32P

Blood/aqueous humour, carbonic an hydrase inhibitor effect on pH, bi carbonate and CO<sub>2</sub> in (rabbit), 128, 80P

Blood-aqueous barrier, kinetics of pene tration of (rabbit), 122, 11

permeability to small molecules of, 117, 25P

Blood carbon diovide tension, broncho motor responses induced by (dog), 119, 292

temperature effect on relationship be tween plasma pH and, 127, 19 P

Blood coagulation, initial stages of (man), 122 538

iron preparations effect on (mammal)
118 7P

lymph coagulation comparison with (dog) 122, 35

Blood flow, capacity of forearm blood vessels relation to (man), 131, 299 density flowmeter for measuring rate of,

**121**, 72

forearm See Forearm blood flow internal calorimetry in determination of (rat and rabbit), 118, 54

internal calorimetry measurement of rate of (mammal) 121, 390

measurement in calf and paw of (dog)
134 19P

modified recording rotameter for recording, 125 9P

oscillating pressure in larger arteries relation to (dog), 124, 31 P

pressure gradients and calculation of arterial (dog) 124, 30P rates in different foetal vessels of (lamb)

126, 575

transmural pressure increase effect on calf (man), 134, 666 Blood glucose, benziding in determination

of, 132 3P
Blood groups, haemoglobin E in Veddas

and (man) 127, 41 P

Blood histamine, adrenalectomy effect on (rabbit) 121, 487

bile duct obstruction effect on (dog), 120,

Blood lactate, adrenaline effect on muscle blood flow and (man), 132 372

exercise effect on (man), 125, 95

intravenous pitressin effect on forearm blood flow and (man), 132, 10P

oxygen administration in exercise effect on (man), 125 119

Blood outflow recorder, 117 45P

Blood ovvgenation, photoelectric rapid method for measurement of 120 43P

Blood oxigen capacity gestation age and anoxaemia effect on foetal (sheep) 134, 158

Blood oxygen saturation, photometric method for rapid measurement of 131 2P

Blood pH potassium excretion affected by (dog and man) 121 43

Blood platelets, 5 hydroxytryptamine re tention in (rat) 133 5

phagocytosis influenced by (man) 122, 71P

thromboplastin formation in blood af fected by number of (man) 119 93

Blood pressure, alloxan effect on (rabbit), 118 9P

bladder distension in paraplegia effect on (man) 121 583

continuous indication of 129 75P 48 80 effect on (cat) 121 531

ganglion block and noradrenaline effect m normal and hypertensives on (rabbit) 125 33 P

hypophysectomy effect on (rat) 116 223 retinal behaviour affected by (rabbit) 119 203

See also Arterial pressure

Blood pressure 'follower', continuous blood pressure recording by (man) 130 37P

Blood pump, water metering device for operating and measuring output of 125 1P

Blood sugar, BAL adrenatine and nor adrenatine action on (rabbit) 118

emotion and hormones action on (horse)

correlation with concentration of (dog)
120 392

Blood transfusion, reversal of electrolyte changes in stored ervilprocytes after (man) 129 639

Blood vessels, capacity and distensibility of forearm (man), 131 290

elastic properties of (cat), 122, 291

transmural pressure effect on (man) 131

Blood viscosity, continuous recording of 116, 16P

Blood volume, anaesthesia effect on (cat), 124, 44P

impurities in Evan's blue effect on deter mination of (rabbit), 123 16

isotopic methods on measurement in domestic animals of, 121 53 P

measurement of (rabbit), 116 59, (guinea pig) 132 469

serial measurements of cardiac output pulmonary circulation time and (cat) 132 5P

thermal stress effect on (calf) 130 17P Blood volume depletion, renal response to (dog), 116 307

Blowfiv, acetvicholine content of head of, 134, 251

acetylcholine synthesis in 129, 13P

B M R., thyroidectomy effect on (rat) (T) 116 52P

Body fat, hibernation and low temperature effect on composition of (hamster and rat) 126, 235

Body fluid work in hot environment effect on distribution of (man) 127 30

Body heating, skin and muscle circulation affected by (man) 134, 613

Bodymovements, erectores spinae muscles activity in (man) 129 186

Body temperature, age affecting hot environment effect on (man) 133 120, 141

blood reaction affected by (dog), 125, 20 P blood vasoconstrictor activity affected by (rabbit), 128 521

distribution in normal animal of (rat) 133 335

diurnal rhythm (in 12 hr cycle of activity) of (man) 117 29

drugs action affected by reduced (T) 129 82P

hot and cold infusions effect on regula tion of (man) 125 361

humid tropics and temperate climate effect on (man) 125 21 P

hypothermia and reanimation effects on (rat) 128 454

msulin and magnesium effect on (rat) 119 49P

mouth oesophageal and rectal tempera tures and central regulating mechanism of (T), 123 39 P Body temperature, muscle blood flow affected by rise in (man) (T), 129, 31P regulation by proportional temperature controller in laboratory of (T), 124, 9P respiration affected by (man), 125, 19P respiratory effects of raised (man), 131, 14P

surface cooling for reduction of (dog), 124,8P

sweat rate when heat loss is small relation to (man) 132, 17P

thermal environment effect on (calf), 121, 47P

ventilation during exercise affected by (man), 129, 554

water and salt intake in work in hot en vironment effect on (man), 127, 12

Body water, intra and extracellular con centrations of (guinea pig and rat), 120, 1

protein deficiency effect on (rat), 131, 377 Body weight, cardiac output relation to (cat), 118, 304

energy expenditure relation to (rat), 127, 485

heart weight relation to (rat) 124, 44 liver collagen relation to (rat), 125, 447 metabolic cost of exercise correlation with (man) 121, 225

thymus weight in adolescence and early maturity relation to (mouse), 125, 316 ventilation rate in premature infant cor relation with (man), 116, 170

Bohr effect, foetus showing (sheep), 132, 327

Bone, calcium exchange in (T), 130 40P hypervitaminosis A effect on growth in tissue culture of (chick and mouse), 116, 320

msulm effect on in vitro growth of embryonic (chick), 125, 148

phosphorus transfer rate into and out of (rat), 132 10

vitamin A excess effect on sulphate meta bolism in vitro of embry onic rudiments of (chick), 134, 179

X ray diffraction study of structure of sections of (T), 130, 8P

Bone growth, in vivo and in vitro comparison of (chick) 127, 432

Bone salts, synthetic apatites relation to, 126, 18P

Botulinum toxin, absorption from all mentary canal of (rabbit) 132 64P

central nervous system affected by (rabbit), 120, 618

in vitro effects of (guinea pig and rabbit)
122, 63 P

Botulinum towin, miniature end plate potentials affected by (guinea pig), 134, 264

motor nerve filaments affected by (cat)
123, 501

muscle affected by heat stable principle in partially purified type A (Mytilus), 132, 671

skeletal muscle post contraction hyper aemia affected by (cat), 120, 236

superior cervical ganglion affected by (cat), 116, 9P

vasodilatation with activity of salivary gland affected by (cat) 128, 237

Botulinum toxin block, facilitation across (cat), 123, 511

Botulinum toxin type D, intestino motor drugs classified by means of (mammal), 127, 449

Bradykinin, activation of 'preactive' plasma to form (man) (T) 130, 33P comparative study of kinin, kallidin and

(mammal), 133, 14P salivary gland functional hyperaemia and formation of (cat), 130, 43P

salivary gland production of (cat), 129, 256 salivary gland vasodilatation and (cat) 134, 471

Brain, annesthetics effect on acetylcholine content of (mammal), 125, 56 blood flow reactions in (mammal), 124,

56P

bronchomotor responses to blood gas changes in (dog), 117, 60P

bronchomotor responses due to CO, and O in blood perfusing (dog), 119, 292

chlorpromazine effect on electrical activity of (cat) 129 50P

choline acetylase in homogenates and extracts of acetone dried (rabbit) 134 386

DFP effect on electrical activity of (cnt), 121, 51 P

drugs effect on amounts of substance P and 5 hy droxytry ptamine in (maminal), 131 617

electrical stimulation of unexposed (baboon and man) 125, 278

inhibitory substance to sympathetic ganglia produced by (cat), 129 386

localization of protein formation in (rat),
126, 7P

penetration of substances into cerebro spinal fluid and (rabbit) 129, 119

phosphorus transfer rate into and out of (rat) 132 10

pyruvate oxidase system in (pigeon) 119, 421

- Brain, spinal reflexes affected by action of caffeme on (frog) 128 320
- Brain blood flow, blood pressure and (cat and rabbit) 127 15P
  - factors involved in control of (mammal), 133, 10
- Brain cells, variation in appearance after routine histological treatment of (guinea pig), 118, 57P
- Brain extract, blood coagulation affected by (man), 122, 556
- Brain inhibitory factor, central synaptic transmission affected by (cat) 130 446
- Brain slices, acetylcholme synthesis in hibition by eserine and neostigmine in (guinea pig) 131 329
- Brain temperature, factors affecting (rat), 116 192
- Brainstern, anatomical features of (goat), 120 473
- long latency responses to stretch of eve muscles in (goat) 120 491
- spontaneous discharges in (goat) 120, 514 visual responses in (cat) 122 24P
- Brainstem section, spinal reflex activity affected by (frog) 117 403
- Breathing capacity, apparatus for mea surement of (man), 122 3P
- Breeding, light and diet interchangeability m (rat) 116 50P
  - reanimation after hypothermia effect on (rat), 128 464
- Bright light, colour matching affected by adaptation to (man) 122 335
- <sup>12</sup>Bromide, aqueous humour cerebrospinal fluid and plasma (rabbit) 129 113
- motoneurone inhibitory post synaptic potential affected by (cat) 130 331
- Bromium, Pacinian corpuscles and move ment of (cat) 129, 594
- Bromoindoxyl acetate, esterases cvto chemical localization by use of (rat) 119 36P
- Bromsulphalein, enterohepatic circula tion of (cat and dog) 119 27P
  - guided catheterization in determination of hepatic blood flow by (dog) 124 173 hepatectomy effect on disappearance rate of (dog) 119 129
  - hepatic blood flow and distribution effect on extraction of (dog) 131 669
  - portal vein and hepatic artery removal of (dog) 131 21P
- removal rates of (cat and dog) 119 26P Bronchi, cough reflex effect on tone of (cat) 123 G4
  - receptors in (cat) 123 71
  - stretch receptors in (cat) 117 34P

- Bronchial function, hydroxytryptamine effect on (man), 122, 49P
- Bronchial musculature, blood oxygen and CO2 in perfused brain affecting (dog) 119, 292
- Bronchial nerves, histological changes after section of vagus at different levels m (cat), 120, 589
- Bronchial sympathin (cat), 133, 73P
- Bronchial tone, stretch receptor activity influenced by (cat), 125, 338
- Bronchomotor drugs, pulmonary stretch receptor activity affected by (cat), 125, 338
- Bronchomotor reflexes, nerve paths of (cat) 123, 64
- Bronchomotor responses, blood CO, m brain affecting (dog), 119 292
- Bronchomotor tone, blood gas changes m brain affecting (dog), 117, 60P
  - central control of (T), 117, 20P
  - haemorrhage effect on (dog), 116, 39
  - reflex control from baroceptors of (dog), 116, 35
- Bronchoscope, intracardiac pressure mea surement by modified (dog) 132, 24P
- Bronchospasm, simple method of re cording repeated histamine induced (guinea pig), 127 29P
- Buffer excretion, acidosis effect in adult and young on (dog) 124, 363
- Bufotenine, enzymic oxidation of (cat and guinea pig), 122 405
- Bunsen-Roscoe Law, retinal bleaching in rivo and (man), 130, 137
  - short duration of stimulus to eve and (man) 118 135
- Buty1 4-hydroxy-3 5-dilodobenzoate. thyroxine and truodothyronine meta bolism affected by (rat), 125 408
- Butvric acid, rumen absorption of (sheep), 122 103
- BW 284 C51, botulinum toxin effect on response of gut to (rabbit) 127, 469
- Cadmium, ervthrocyte sodium transfer affected by (tortoise) 132 426
- Caffeine, active state of muscle affected by (frog) 126 181
  - reflexes in spinal animal affected by (frog) 128 326
  - skeletal muscle contraction affected by (rat) 116 365
  - spinal reflexes affected by action on brain of (frog), 128 320
- Calcium, acetylcholine release from gang hon affected by (cat), 124 234

Calcium, adrenaline action on skeletal nerve muscle affected by (rat), 128, 619 ATP and 'Marsh' factor action on muscle fibres affected by (rabbit), 121, 236

Ca lack effect on skeletal muscle loss of (frog), 130 23 P

cerebral cortex sections metabolic activity affected by (guinea pig), 117, 477

electrocardiogram on vagal inhibition affected by (anuran), 118, 23 P

electrotonus at motor nerve ending affected by (frog) 124, 592

end plate potential affected by (frog), 118, 82

end plate potential quantum and (frog), 124, 561

end plate potential quantum content affected by (cat), 132 86

erythrocyte sodium transfer affected by (tortoise), 132, 426

giant axon permeability to (Loligo) 128, 41P

giant axon sodium permeability affected by (squid) 128, 40P

mtracellular nerve containing (squid and crab) 134 399

local muscle shortening by intracellularly applied 128 12P

magnesium effect on end plate potential affected by (frog) 124 378

miniature end plate potentials affected by (cat), 132 68

motor end plate potentials affected by (frog) 116 507

muscle stretch effect on end plate potential affected by (frog), 133 616 neuromuscular transmission affected by

(locust) 127 98
perfused nerve reaction to excess of (frog),

123 343
plasma thromboplastin affected by (man

and cow), 132 169 potassium contracture of heart modified

by (frog), 134 593 potassium gradient and threshold in uterus affected by (rabbit), 133 154

Purkinje fibres electrical properties effect on (calf and sheep), 129, 568

skeletal muscle affected by deficiency of (frog) 133, 101

skeleton affected in pregnancy and lactation by dietary level of (sheep) 123 69 P spermatozoa motility affected by (mammal), 120, 467

'staircase phenomenon and action on heart of (frog) 134, 569, 128 55P vasoconstrictor activity of plasma affected

s asoconstrictor activity of plasma affected by (rabbit), (T) 122, 75P

Calf blood flow, plethysmograph and thermo electric needle records comparison of (man), 127, 7P

Calf blood vessels, transmural pressure increase effect on (man), 132 45P

Calf muscles, force and integrated electrical activity relation in (man), 132 676 stand at ease effect on electrical activity of (man), 127, 620

Calliphora, optic lobe electrical responses in, 133, 79

Caloric nystagmus, repeated stimulation effect on (rabbit), 124, 130

Camera, recording, 133, 5P

Cantharadin blister, cutaneous pain measurements on base of (man) 120, 328

Capillaries, antidromic vasodilatation of (rabbit), 125, 140

iron preparations damaging effect on, 118, 33P

Capillary dilator substance, spinal nerve roots containing (horse), 126, 124

Capillary filtration rate, adrenalme effect on (man), 123, 31 P

measurement in forearm of (man), 122,

sympathectomy effect on (man), 127, 6P Capillary microelectrodes, preparation of, 128 31P

Capillary permeability, skin lustamine content relation to (mammal) 120, 205 Carbachol, blood catechols affected by

(horse) 132 549
Carbamylcholine, resting and action potentials of auricle affected by (cat) 120 451

Carbaminoylcholine, superior certical ganghon (perfused) responses affected by (cat), 132, 535

Carbon dioxide, auricle conduction velo city and rate affected by (rabbit) 129 96

balance sheet in body of (man), 129,

breathing in severe exercise stimulated by (man) 125, 90

diffusion respiration effect on arterial (dog), 133 349

Douglas bag loss with time of 127 518 erythrocyte volume affected by partial

pressure of (mammal), 123, 367 immediate metabolic effects of breathing

mixtures of (man), 129 393 medullary chemoreceptors stimulation by (cat), 118 547, 558

premature and full term infants respiration affected by (man), 119, 11P

- Carbon dioxide, recording of rapid fluctua tions in respiratory gases of, 119, 33 P
  - respiration control in hypothermia by (dog), 127 380
  - respiratory response of infants to (man), 122, 264
- Carbon dioxide carriage, acetazoleamide effect on (man), 129, 71 P
- Carbon dio ide output, oxygen mhalation effect on (man), 127, 507
- Carbon dioxide solid, refrigeration in climatic chamber by (T), 127 53P
- Carbonic anhydrase, acid base and electrolyte balance during inhibition of (T) 132, 70 P
  - eye structures containing (rabbit), 130, 665
- Carbonic anhydrase inhibitor, aqueous humour circulation affected by (rabbit), 128 78P
  - blood/aqueous humour distribution of pH, bicarbonate and CO<sub>2</sub> affected by (rabbit) 128 80P
  - intraocular pressure affected by (rabbit), 128, 77 P
- Carbon monoxide, carotid chemoceptor activity affected by (cat), 117, 63P
  - carotid chemoceptors affected by inhala tion of (cat), 118, 520
  - diffusion coefficient in haemoglobin solutions of (sheep), 118 264
  - flash photolysis determination of myo globin velocity of combination with (whale) 134 112
  - foctal haemoglobin combination with (sheep) 127 47
  - haemoglobin equilibrium at high percent age saturations of (sheep) 126 359
  - hacmoglobin in solution and in red cell reaction with (man) 129, 69
  - pulmonary diffusing capacity measure ment by use of (man) 129 237
  - pulmonary vasomotor responses in iso lated perfused lung to (cat) 117 305
- Carbon reagents histamine action affected by (guinea pig) 123 37
- Carboxyhaemoglobin determination of fourth velocity constant of 134 123
  - pared with that of (sheep) 126 374
  - velocity constant determination by photo chemical method of intermediates of, 132 43 P
- Cardiac action potential KCi into coronar circulation effect on (turtle), (T) 132 19 P
  - sdium permeability and (calf and sheep), 127, 215

- Cardiac extra sounds, factor affecting (dog), 122, 135
- Cardiac failure, model heart showing, 127, 369
- Cardiac function, high oxygen pressures effect on (T), 128, 23P
- Cardiac glycosides, erythrocytes affected by 128, 56P
- Cardiac hypertrophy, adrenals and pitui tary role in (rat), 116, 219
  - growth hormone concerned with (rat), 116,
- Cardiac murmur, ductus arteriosus con striction and (sheep), 132, 310
  - patent ductus arteriosus in newborn causing (sheep), 128, 344
- Cardiac muscle, calcium effect on potas sium contracture of (frog), 134, 593
  - rigor mortis time course in (horse) 121, 283
  - sodium and calcium relation to electrical and mechanical properties of (frog) (T), 125, 66 P
  - sodium effect on (rat), 120, 13P, 130, 615 sodium effect on anoxic (rat), 117, 75P
  - sodium exchanges in (rat), 129, 177
  - steady state tension at different fre quencies of stimulation of (frog), 134, 578
- Cardiac nerves histological changes after section of vagus at different levels in (cat) 120 588
- Cardiac output, arterio venous fistula effect on (dog), 130, 693
  - exercise and recovery effect on (man), 123 12P
  - Fick and flowmeter measurements of (cat), 118, 299
  - hepatectomy effect on (dog), 119, 129 m man (Film) (T), 116, 3 P
  - serial measurements of blood volume pulmonary circulation time and (cat), 132 5P
- Cardiac tissues, resting and action potentials in (mammal), 130, 29 P
- Cardiovascular afferent fibres, con duction velocity in vagus nerve of (cat), 121, 341
- Cardiovascular drugs blood pressure and nerve muscle preparation recording of (T), 123, 2P
- Cardiovascular reflexes, foetus showing (guinea pig), 118, 68 P
- Cardiovascular vagal receptors pituitrin, phenyldiguanide and veratrine action on (cat), 121, 182
- Caries salwars leucocytes affected by (man) 121 12P

Carotene, blood composition affected by deprivation of (cow), 121, 42P

Carotid artery further baroceptor areas in (cat), 123, 41 P

velocity changes during cardiac cycle in (dog) 120, 257

Carotid artery occlusion, aqueous humour amons affected by (rabbit), 133, 31 pulmonary arternal pressure affected by (dog) 131, 222

Carotid baroceptor nerve, pressure and rate of pulsation effect on impulse activity of (T) 123, 13 P

Carotid body, activity in new born of (mammal), 118 10P

blood flow in (cat), 117, 12P, (T), 117, 20P, 125, 73

blood supply of (mammal), 117, 11*P*, 117 347

carbon monoxide effect on impulses from (cat), 118, 520

hexamethonium effect on response to various stimuli of (cat), 118 373

hydroxytryptamine stimulation of (dog) 120 314

perfusion of (cat) (T), 122, 68P stimulants to (dog) 117, 34P

Carotid body perfusion anatomical con siderations affecting (mammal) 117 356

Carotid chemoceptors, carbon monoude effect on activity of (cat) 117 63 P

Carotid circulation vascular connexions with vertebral circulation of (mammal), 117, 67

Carotid sinus, acetylcholine and pressure excitation of receptors in perfused (cat) 130 513

acetylcholine effect on pressor receptors in (cat), 122 28P

adrenaline effect on liver blood flow mediated by (rat and rabbit) 120 87

bronchomotor control from (dog), 116 50 carotid occlusion effect on pressure in (mammal) 117 56

drugs action on baroceptor activity of (cat), 116 27P

hydroxytryptamine effect on receptors in (cat), 123 278

pulsatile and non pulsatile flow effect on (cat), 118 509

pulsatile and non pulsatile pressures effect on (T), 117 32P

Carotid sinus baroceptors, pulmonary arterial pressure affected by stimula tion of (dog) 131, 220

Carotid sinus baroceptor afferent fibres, aortic nerve containing (cat) 126, 40P Carotid sinus denervation, sarm effect following (dog), 133, 485

Carotid sinus nerve, blood pressure and respiratory responses to stimulation at various intensity and frequency of (cat), 132, 174

non medullated afferent C fibres in (cat and rabbit), 134, 171

pulmonary arternal pressure affected by section and by stimulation of (dog) 131, 224

Carotid sinus nerve impulses pulsatile and non pulsatile flow effect on (cat) 118, 511

Carotid sinus nerve potentials carotid occlusion effect on (cat), 117, 66

Carotid sinus reflex, lymph and unne flows participation in (cat), 117 10P

Carotid sinus pressure, pulmonary arterial pressure affected by change in (dog), 131, 229

Carrageenin, connective tissue proliferation following subcutaneous injection of (guinea pig) (T), 132, 54P

Carrier transfer kinetics of, 118, 28 Cartilage, hypervitaminosis A effect on in vitro growth of (mouse), 116, 333

Cat, folding cage for 116, 11P growth rate of laboratory reared (T) 116 46P

righting movements of freely falling (Film), 129, 34 P

spectral sensitivity of dark adapted 118 395

Catechol amines, adrenal medulla distribution of ATP and of (ox), 133 548 heart containing (hagfish and lamprey) 131, 271

Catelectrotonus end plate potentials affected by (frog) 124 587

Cathodal polarization, Paemian corpuscle action potential affected by, 133 62

Cathode-ray tube, multichannel for photographic recording, 119 32P

Cations, motoneurone exentators post synaptic potential affected by (cat) 130 389

Caudate nucleus cholino acetylase in (mammal) 134, 723

substance P in (dog), 126, 604

Cell, refractive index measurement in living 118, 38 P

Cell culture quantitative method for (chick), 123 20P

Cell division folic acid derivative functioning during (various) 122 40P

studies on mechanism of (sea urchin) 133, 50 P

- Cell morphology sex differences in (T), 132 70P
- Central cholinergic synapses, drugs action on 129, 40P
- Central nervous system action currents within (frog), 129 58P
  - botulinum toxin effect on (rabbit) 120, 618
  - choline acetylase distribution in (mam mal) 134, 719
  - current flow in (rat and frog), 122, 22P / fibre activity control by (cat) 122 515 inhibition in (cat) 122, 474
  - substance P and 5 hydroxytryptamine distribution in (dog), 126 596
  - sympathin concentration in different parts of (dog) 123, 451
  - vasodilator activity of extracts of various parts of (horse) 120 254
  - Central tegmental tract responses to stretch of eve muscles in (goat) 120 494
  - Centrifugal acceleration adaptation to (rat) 122 31 P
  - Cerebellar activity microelectrode recording of (frog) (T) 125 14P
  - Cerebellar efferent fibres impulses in (cat) 118 43P
  - Cerebellar Purkinje cells two types of mhibition of (eat), 132 58P
  - Cerebellar surface simple method for mapping (T) 123, 30 P
  - Cerebellum acetylcholine histamine and brain extracts effect on electrical activity of (rabbit) 129, 19P
    - afferent and cerebellar cortical stimula tion effect on (cat) 129 57P
    - cerelellar extracts effect on electrical activity of (rabbit) 132 391
    - cholme acetylase in developing (rabbit and guinea pig) 133 567
    - excitators and inhibitors processes acting on Purkinje cells in (cat) 133 520
    - mu-cle excitation by two routes control by (cat) 130 213
    - proprioceptive control of muscular con traction affected by (cat) 123 46P
    - Cerebral blood flow factors involved in control of (mammal) 133 10
    - Cerebral cortex action and resting potentials in (cat) 130 96
      - aft r burs sproduction in unanaesthetized
        isolated (cat) 125 427
      - cholmencetylase distribution in (mam mal) 134 722
      - cooling effect on function of (cat and monkey) 119 44P
      - cytochemistry and glycolysis in (rabbit) 120-267

- Cerebral cortex, electrical responses from (cat and rabbit), 124, 254
  - electrical stimulation of unexposed (baboon and man), 125, 278
  - electronic model of, 127, 173
  - evoked potentials in isolated (cat), 123, 37P
  - ipsilateral impairment followings area 4 lesions in (monkey), 117, 54P
  - metabolism affected by electrical stimu lation of isolated (rat and guinea pig) 117 23 P
  - microelectrode studies of electrical activity of (cat) 121, 117
  - motor areas delineated in (goat), 133, 159
  - neurones' function and structure in isolated (cat), 118 412
  - salts effect on metabolic response to stimulation of sections of (gumea pig), 117-471
  - site of origin of pyramidal tract in (cat)
    124 389
  - skin grafts causing sprouting of nerve fibres in (rabbit) 120, 17P
  - splenic function in blood pressure changes evoked by stimulation of (cat), 129 547
  - stimulation effect on respiration of slices of (rat and games pig), 124 117
  - stimulation outside skull of (baboon), 122 17P
  - thalamus stimulation facilitatory effect on sensory neuronal responses in (cat), 131–115
  - tubocurarine (locally applied) effect on electrical activity of (cat) 132 138
  - Cerebral cortex after-bursts, mechanism of (cat) 127 168
  - Gerebral cortex stimulation, influence of stimulus parameter variation on limb muscles response to (cat) 120 28P
  - Cerebral hemispheres cerebellum electrical activity affected by extracts of (rabbit) 132 396
  - motor responses from medial surface of (man) 122 18P
  - Cerebral lesions monkeys trained for study of (Film) (T) 118 24P
  - Cerebral potentials peripheral nerve stimulation evoking (man) 131 441
  - Cerebral synapses (T) 133, 35P
  - Cerebral ventricle exerne and DFP injection into (cat) 125 488
  - Cerebrospinal fiuld and base equilibrium between blood and (dog) 126-14P aqueous humour comparison with (rabbit), 129-111

Cerebrospinal fluid, bicarbonate content of plasma, aqueous and vitreous humour compared with (mainmal), 132, 454

blood exchange with (rabbit), 123, 54P cryoscopic apparatus for measuring osmotic pressure of 124, 12P

mositol content of (mammal), 119, 18P, (man and cat) 129, 272

movement over hemispheres of (dog) 128, 51P

Cerebrum, choline acety lase in developing (rabbit and guinea pig), 133, 566

Cervical ganglionectomy, light induced oestrus affected by (ferret), 132, 124

Cervical mucus, variations in apparent viscosity of (man) 122 358

Cervical sympathectomy, hypothalamus sympathin affected by (cat), 123, 463

Cervical sympathetic, organization of (rabbit) 133 220

section effect on choline acety lase content of (sheep) 132, 666

Cervical sympathetic stimulation, carotid body blood flow affected by (cat) 125 74

eyeball protrusion registration with (rat), (T) 128, 3P

Cervix uteri innervation of (rabbit), 117, 317

pregnancy effect on (rat), 131 19P

C fibres action potentials of (mammal), (T) 128, 37P

Chemoreceptors, aortic pressure effect on (cat) 134 320

respiratory centres containing 117 30P Chemoreceptor afferent fibres, conduction velocity in (cat) 121 351

Chest, sound transmission of normal (T), 127, 5P

Chest movement, method for measure ment of (man) 124, 195 studies on (man (T), 119 29P

voluntary control of (man) 124 204

Chewing (man) (T) 131, 30P

tooth contact during (T) 132, 53P
Chloralose medullary chemoces

Chloralose medullary chemoceptors affected by (cat), 118 547 561

Chloramphenicol, histamine exerction affected by (rat) 125, 536

Chloride, aqueous humour plasma distribution of (various) 116 47P

aqueous humour, cerebrospinal fluid and plasma (mammal), 129, 114

arm and body sweat containing (man)
116, 398

kidney cortex slices permeability to (guinea pig), 131, 542

Chloride, kidney slice swelling induced by mercurial diuretic affected by (rat) 134 216

motoneurone inhibitors post synaptic potential affected by (cat), 130, 331

motoneurone membrane potential af fected by injection of (cat), 130 29, nerve and desheathed nerve containing

(cat) 128, 476
pH affecting erythrocyte content of

(man), 118, 43 rumen epithelium permeability to (sheep)

121, 455

skin containing 'bound' (cat) 117, 178 Chloride excretion, extracellular volume depletion effect on (dog), 116, 312

Chloroform, baroreceptor discharge affected by (cat), 131, 465

Chlorpromazine, brain electrical activity in conscious animal affected by (cat) 129 50 P

Choline, crustacean muscle fibres action potentials affected by (crab) 120 186

effect of choline deficient diet on concentration in plasma of (rat), 120, 440

electroplate membrane potential affected by (electric cel), 119, 336

eserine inhibition of acetylcholine syn thesis in brain slices affected by (guinea pig), 131, 333

motoneurone affected by injection of (cat), 130, 297

neuromuscular transmission affected by (cat), 117 241

plasma values of (mammal), 117, 234 superior cervical ganglion (perfused) responses affected by (cat) 132, 535

sympathetic ganglion output of (cat) 119, 449

sympathetic ganglion release of (cat) 131,

Choline acetylase, acetylcholine synthesia and (blowfly), 132, 351

antero and retro grade degeneration in cholinergie nerve effect on content of (sheep), 132, 666

brain homogenates and extracts of acetone dried brain containing (rabbit) 134, 386

central nervous system distribution of (mammal), 134, 719

developing nervous system containing (rabbit and guinea pig), 133 566

Choline aryl ethers, amine oxidase min bition by (cavy), 118 15P

Cholinesters spleen containing (ox) 121,

- Choline m-bromophenvl ether botu linum toxin effect on response of gut to (guinea pig) 127 460
- Choline-2-6-xxlvl ether bromide local anaesthetic action of (cat) 122 75P
- Cholinergic nerve, choline acetylase con tent affected by antero and retro grade degeneration of (sheep) 132 666
- Cholinesterase arteries containing (mammal) 121 623
  - suricles containing (rabbit) 126 623
  - ciliary ganglion removal effect on content m ins of (cat) 118 32P
  - co-relation of histochemical and mano matric studies of activity in diaphragm of (T) 116 46P
  - chromaffine cell distribution of (ox) 129
    50
  - denervation effect on content in ear artery of (rabbit) 121 610
  - diministron in skin of (mammal) 129 454

    come sensitivity of auricle and activity
    of (rabbit) 123 204
  - Koelle's method for histochemical demon stration of (T) 118 5P
  - muscle denervation effect on (guinea pig) 116 162
  - quantitative histochemical demonstration with "Cu of 117 77P
  - re mal distribution of (various) 120 435 ckm distribution in foetus and adult of (man) 134 202
  - spleen containing (ox) 121 66
  - $\lambda$  cradiation effect on content in intestine of (rat) 116 5P
  - Cholmesterase inhibitors antidromic vacodilatation affected by (rabbit) 120
    - neuromuscular transmission affected by (cuinea pig) 122 276
  - Chorda-stimulation vasodilator sub stance produced by (cat) 128 243
  - Chorionic gonadotrophin dose response curve for (toad) 125 59 P
    - hidamine induced gastric secretion inhibition by (rat) 131 15P
    - male European tree frogs respons to 120 25P
    - \*precial sampling techniques applied to as an of (toad) 125 51P
  - Chorold electrical resistance of (frog) 134
    343
  - Chorrippur optic lobe electrical responses in 133-79
  - Christmas factor blood coagulation and (man) 122 541
  - Chromaffine cell cholmesterase distribution in (ox) 129 50

- Chromaffine tissue, pressor activity of fractions from homogenetes of (ox), 129, 28
- Chromatic bleaching retinal pigments and (guinea-pig) 127, 576
- Chromotagraphy, principles of (Film)
  130 32P
- Chromatophore visual sensitivity measurement by expansion of (Xenopus), 125 185
- Chromosome mechanism of separation in living cell of (newt) 119 34P
- mitotic anaphase and pairing of (newt)
  120 32P
  - observations on physical state of, 132, 34P
- Chronic respiratory paralysis mouth piece for positive pressure ventilation in (T) 123 29 P
- Chronograph two-channel, 123 16P
- Chylomicrons, lipolysis by post-heparm plasma of (dog) 127, 310
- Ciliary body carbonic anhydrase content of (rabbit) 130, 665
- Ciliary ganglion acetylcholme action on (cat) 119 455
  - effect of ganglionic blocking drugs on (eat) (T) 117 2P
- Ciliary movement, acetylcholine and gill plates (Mutilus) 118 30P
- Ciliary muscle accommodation with convergence and force of (man) 128, 104
- Ciliary processes ascorbic acid in mea surement of plasma flow across (rabbit), 130 1
- Cineangiography ductus artenosus patency in newborn studied by (sheep), 128 362
- Cine camera (35 mm) mcorporating a Philips X ray image intensifier 126 1P
- Cinematography aortic blood flow velo city measurement by high speed (rabbit) 118 328
  - apparatus for time lapse (T) 133 6P
- Circle of Willis contributions in different species to (mammal) 117 67
- Circulating fan leak proof 123 15P
- Circulation, mechanical heart action in model of 127 364
- Circumvallate papilla nerve cells of (pig) 118 62P
- Citrate acertlcholine synthesis affected by (rabbit) 118 99
  - activeholine synthesis and, 129 SIP (blowfiv) 132 344
- <sup>11</sup>G-labelled glucose specific activity of CO<sub>2</sub> in arterial and venous blood fol lowing injection of (dog), 132, 47P

- Clearing-factor, electrophoretic migra tion of serum lipoproteins affected by (mammal), 134 102
- Clerks food consumption and energy expenditure of (man) 122, 54 P
- Clevedon and BAC respirators (T), 124, 53P
- Climate, renal function affected by (man) 118, 25P
- Climatic chamber for farm animals 121,40P
- Climbing, oxygen consumption energy expenditure and efficiency (at low altitudes with loads) of (man), 128, 294
- Closed-circuit respiration calorimeter 24 hr total metabolic exchanges mea surement by (rat) (T), 121, 35 P
- Glosed-loop control system, versatile equipment for study of work in (man), 132, 7P
- C nerve fibres effect of activity of (cat), 128 9P
- Cobalt, erythrocyte sodium transfer af feeted by (tortoise) 132, 426
- Cocaine, acetylcholine formation in iso lated perfused heart affected by (rabbit), 126 186
  - histamine and pilocarpine effects on sympathetic ganglion affected by (cat), 129, 345
  - hypogastric nerve uterus preparation af fected by (rabbit), 132, 93
  - nictitating membrane response to adrena line affected by (cat) 118 28 P
  - preganglionic denorvation of nictitating membrane comparison with action of (cat), 124, 28
  - Purkinje fibre electrical properties af fected by (calf and sheep) 129 573
  - skeletal muscle post contraction hyper aemia affected by (cat) 120 236
  - vagal stimulation action on perfused heart affected by (rabbit) 131 679
- Cochlea hydraulic models relating to analysis of sound by 117, 44 P
  - microphonic activity of lateral line applied to (ruff), 116 155
  - stria vascularis in living animal in (T)
- Cochlear nucleus auditory responses from single nerve units leaving (cat), 117, 62 P
- Cockroach, acetylcholine content of head of, 134, 251
- Coeliac neurectomy, liver blood flow affected by (rat) 123 580
- Coeliac plexus, adrenaline action on (dog) 130, 500

- Coenzyme A, acetylcholine synthesis affected by (rabbit) 118, 99
  - acetylcholine synthesis and (blowfly) 132, 345
- Cold, cortisone action in protection to stress from (mouse), 123, 85P
  - 131 Iodine output of thyroid gland affected by (rabbit), 126, 20
  - peripheral circulatory response to (T) 122 79 P
  - sweating caused by (man), 122, 59
  - temperature distribution in body affected by (rat), 133, 336
  - temperature responses in liver and abdomen following exposure to (rat) 129, 63 P
  - thyroid activity affected by exposure to (rat), 131 52
- Cold agglutinins, vascular responses with high serum titre of (man), 118, 69P
- Cold nerve fibres, size and response of (cat), 117, 143
- Cold pressor response, environmental and cold bath temperatures effect on (man), 129, 72P
- Cold threshold, skin temperature effect on (man) 126, 194
- Collagen, body weight relation to liver (rat), 125, 447
  - foetal membranes containing (rat), 132,
  - growth of foetus placenta and feetal membranes with increase of (rat), 128 225
  - liver regeneration and (rat) 123, 482
  - liver regeneration and formation of (rat), 117 257
  - post partum involution of uterus affecting (rat) 128, 50 P
  - post partum uterino loss of (rat), 132 502 pregnancy and lactation effect on mam mary gland (rat) 132 476
  - pregnancy effect on content in reproductive tract of (rat) 123 492
- protein free diet effect on total hody (mouse) 128, 15P
- thiouracil effect on content in thiroid gland of (rat) 125 51
- uterine distribution in pregnancy of (rat)
  132 492
- Collagen growth partial hepatectomy effect on (rat) 120, 6P
  - pregnancy effect on reproductive tract (rat) 120, 7P
- Collagenase cartilage sections affected by, 119 5P
- Colliculus action potentials from (frog), 130, 25 P

Colloid osmometer, electronic, 123, 18 P Colon anal external sphineter inhibition with distension of (cat), 134, 232

electric potentials recorded in (guinea pig), 123, 55P

electrical stimulation effect on (guinea pig), 120, 49

intramural organization of parasympa thetic outflow to (rabbit), 129, 17P

in vitro preparation of innervated (rabbit), 123 60 P

sympathetic and parasympathetic nerve stimulation effect on (rabbit), 126, 46P

Colostrum absorption histological changes in intestine during (pig and cat) 122, 6P

Colour blindness, accommodation reflex in (man), 121, 570

retinal chromatic differentiation in (man), 120, 60 P

Colour-blind subject, central foveal sensitivity of (T) 117, 64P

photopic spectral sensitivity curve of (man) (T) 116 52P

Colour response, mechanism of (Xenopus), 125 195

Colour vision, area summation in receptive pathways of different colours in (man), 124 400

bright light adaptation effect on (man), 122 332

retina periphery and (man) 119, 170 Compound 48/80 acid gastric secretion

affected by (cat) 117 73P
Conductance time course of change in

nerve (Loligo) 117 529

Conduction velocity bicarbonate and carbon dioxide effect on auricle (rabbit) 129 97

muscle length effect on (frog), 125 215 note on 125 221

optic nerve fibre groups (cat) 121 419

Conductivity model of human thorax, electric field measurements in 116 15P Conductivity water preparation of (T), 117 2P

Cone pigment difference spectrum in (frog) 123 381

spectral sensitivity curve of (squirrel), 127 596

thresholds for rods and (man) 123, 12P visual pigment detection in living (man) (T) 128 59P

Cone monochromat, accommodation reflex in (man) 121 577

Cone monochromatism detection of (man) 121 549

Gongenital cerebellar disease (cat) (T), 123, 30 P

Congenital heart disease, carbon dioxide balance sheet in (man), 129, 149

oxygen inhalation effect on respiration in (man), 127, 498

Connective tissue, morphological studies on normal and pathological (T), 122, 69P

Connective tissue permeability, hyalu ronidase action on (mouse), 117, 2

Constant current slow muscle response to stimulation by (frog) 121, 329

Contracture, slow fibres activity in (frog), 121, 335

Conus arteriosus, blood flow through (frog) (T), 131, 27 P

Convulsions, atropine and hyosine action on TEPP produced (cat), 116, 209

Cord dorsum potentials drugs action on (cat) (T), 122, 68P

Cornea, acoustic analogue showing structural basis of transparency of (T), 132, 30 P

cortisone effect on swelling induced by alloxan in (T) 116 52P

gly colysis in (rabbit), 126, 396

glycolysis in living and excised (rabbit), 122, 14P

hydration of (rabbit), 125, 15P oxygen supply to (rabbit), 122 15P

oxygen utilization from atmosphere by (rabbit), 117 463

source of nerve fibres to (cat) 117, 56P submicroscopic structure of 132, 38P

water and sodium movement affected by aerobic metabolism of (rabbit) 128 43P

Cornea hydration factors affecting (rabbit) 128 504

Coronary artery drugs action on perfused (dog) 122 489

perfusion of (dog) (T), 118, 24P

Coronary flow coronary sinus fraction of (dog) 128 19 P

my ocardial and vasomotor determinants of 125 36P

Cortex intraventricularly injected drugs action on evoked responses in mid brain and (cat) (T), 128 3 P

Cortical motor map long term repeatability of (man), 123 48P

Cortical motor point dimensions of (cat), 129 20 P

Cortical neurones, action and resting potentials in (cat) 130, 96 microelectrode studies of activity of (cat), 121, 117

- Corticosteroids, isolated heart affected by (guinea pig), 134, 10P
- Corticosterone, hexoestrol action on adrenocortical output of (rat), 130, 605 hexoestrol action on secretion by adrenal cortex of (rat), 128, 7P
- Cortisone anaphylactic shock affected by (guinea pig), 118, 7P
  - cold stress on normal and adrenalecto mized animals affected by (mouse), 123, 5P
  - lymphocytes in vitro affected by (rat), 119, 274
  - nerve regeneration affected by (rabbit), 126, 629
  - phosphate distribution in body affected by (man), 131, 9P
  - placental glycogen affected by (rabbit), 120, 68P
  - plasma proteins affected by (T), 118, 68 P pregnancy affected by (mouse and rabbit), 116, 240
  - radio iodine uptake by thyroid gland affected by (rabbit), 127 337
  - succinic dehydrogenase distribution af fected by (rat), 122, 181
  - thyroid gland activity affected by (rabbit), 126, 41
  - thyroid uptake of radio iodine affected by (rabbit), 120 292
  - water diuresis in medullectomized animal affected by (rat), 118, 493
- Cossor camera, modifications of, 128, 2P Coughing erectores spinae muscles activity in (man), 129 189
  - intrathoracic pressure, arterial pressure and peripheral blood flow affected by (man) 122 351
- Cough reflex afferent nerve path of (cat), 123, 59
- Gricket calorie expenditure of (T) 127 19 P Greatine small intestine (isolated) absorption of (rat) 130 657
- Creatine phosphate dinitrophenol action on skeletal muscle (rat) 130 590
  - rigor mortis and changes in (horse) 121
  - tension in plain muscle relation to (guinea pig), 131, 708
- Greatinine, aqueous humour cerebrospinal fluid and plasma (rabbit) 129 116
- Creatinine clearance inulin clearance comparison in voung with (man) 116, 50P
- Greatinine excretion voluntary empty ing of bladder assessment by (man), 129 408
- Crotalidae infra red receptors in, 134 47

- Crustacean muscle fibres, electrical properties of (crab), 120 171
  - electric responses of single (Portunus), 117, 15P
  - inhibitory nerve impulses effect on (crab) 121, 374
- Cupula, mechanical analysis of responses from (ray), 117, 334
- microphonic activity of (ruff), 116, 141
- Curare, adrenaline action on skeletal nerve muscle affected by (rat), 128 621
  - choline antagonism at neuromuscular junction to (cat), 117 243
  - end plate potential affected by (cat) 132 75
  - y fibre activity of muscle affected by (cat), 122, 507
  - isolated sympathetic ganglia affected by (rabbit) 117, 187
  - microinjection into giant axon of (squid), 131, 600
  - miniature end plate potentials affected by (cat) 132, 62
  - post tetamic potentiation of isolated sym pathetic ganglia affected by (rabbit) 117, 191
- Curarine, resting muscle end plate potentials affected by (frog), 117, 115
- Curarized muscle, sodium effect on end plate potential in (frog), 118, 78
- Cutaneo-abdominal reflex, nature of (cat and rabbit) 118, 200
- Cutaneous nerve, vasomotor and sudo motor effects of block of motor nerves and of (man), 132 66P
- Cutaneous nerve stimulation, spinal cord potentials resulting from (cat) 134, 9P
- Cutaneous pain, chemical excitants of (man), 120 326
- Cutaneous sensibility, heat transfer and (man), 126 206
- Cutaneous sensory units, identification by single fibre action potentials (cat and toad) 117, 131
- Cutaneous warmth and cold thresholds skin temperature effect on (man) 126 194
- Cyanide erythrocyte sodium transfer affected by (tortoise) 132, 430
  - pulmonary vasomotor responses in 150 lated perfused lung affected by (cat), 117 310
- renal circulatory autoregulation affected by (dog) 123, 145
  - \*4sodium efflux from axon affected by (Sepia), 128 37
- sodium transport in ervthrocytes af fected by (man and chicken) 129 492

Cvanosis artificial ductus arteriosus in relief of (dog), 130, 167

Cyclopropane renal vasoconstriction produced by (dog), 118 140

urine osmolarity during water' diuresis affected by (dog), 131, 311

Cyclostomes heart innervation in (hag fish and lamprey) 131, 257

Cysteamine adrenals and liver protection against X ravs by (rat), 126, 15P

coronary output of perfused heart and (rabbit) (T) 121 56 P

liver glycogen affected by (T) 121, 56P sympathetic ganglion affected by (cat), 126 16P

Cysteic acid, enzymic decarboxylation of (mammal), 126 52 P

Cysteine acetylcholme synthesis affected by (rabbit) 118 102

Cysteine sulphinic acid, enzymic de carbox lation of (mammal) 126 52P

Dark-adaptation bleaching spectra affected by (guinea pig), 127 576

flicker resonance rate affecting (cat) 122, 390

nervous mechanisms and (man) 125 417 photopigment in single rod in (Xenopus) 130 533

resting discharge and (cat) 125 28 P single retinal units showing (frog) 119, 65

spectral sensitivity in (cat) 118, 49P 118 395

spectral sensitivity of retinal elements in (pigeon), 122 527

(frog) (T) 122 35P

Darmstoff chemical nature of 133 64P iloum affected by (rabbit) 125 38P

'Deactivation by release' insect striated muscle showing (cicada) 124 287

Dead space carbon dioxide hyperphoea effect on (man) 125 94

single breath analysis and factors affecting (T) 130 57 P

Death cerebrospinal fluid mositol content following (man and cat) 129 275

Decamethonium atrophied red and white muscle response to (cat) 124 432

lateral ventricle injection of (cat) 123,

my asthenia gravis reaction to (man), 122,

n uromuscular transmission affected by (guinea pig), 122 275

potassium loss from normal and denerated muscles affected by (T), 123, 69 P

Decamethonium, red and white muscle response to (cat), 124, 418

species differences in motor end plate reaction to (mammal), 122, 239

Decerebrate preparation, spinal cord action potentials synchronization in (frog), 121, 111

Decerebrate rigidity, efferent nerve fibres involved in (cat), 117, 163

Decerebration, acute (grevhound), 122, 69P

central response to extra ocular muscle stretch affected by (cat), 128 188

Deciduoma, uterine histaminase affected by (rat) 119, 289

Defaecation, colon reflexes involved in (cat), 134 233

Degenerating nerve recovery after prolonged stimulation of (rabbit), 123, 234

Dehydration, ADH excretion in urine during (rat) 122, 57P

antidiuretic substance excretion following (man and rat) 122, 223

renal response to acidosis during (dog), 123 6P

urmary composition affected by (Marsu pial) 127 4

Dekatron counter, electronic gate for use with (T) 132 33P

Demyelination experimental (chicken) (T) 130 33P

Denervated ear vascular responses to temperature of isolated (rabbit), 122, 35P

Denervated forearm circulation in (man), 122 25P

Denervated kidnes water and cation transport in slices of (rabbit), 133 287

Denervated muscle cholmesterase in (guinea pig), 116–162

electrical properties of (frog), 131, 1

ions and drugs effects on spontaneous fibrillation of (rat) 123 9P

TEPP action on (eat) 124 330

Denervation amme oxidase restoration after (cat) 117 35P

potassium entry rate into muscle affected by (frog), 123, 3P

potassium entry into skeletal muscle affected by (frog) 131 473

resting muscle end plate potentials affected by (frog), 117 116

skeletal muscle electrical properties affected by (frog) 123 2P

temperature effect on rate of flow in perfused isolated ear after (rabbit) 128 613 Density flowmeter, blood flow measure ment by, 121, 72

Dentate gyrus, stimulation in (rabbit), 129, 615

Deoxycorticosterone, lymphocytes in vitro affected by (rat), 119, 279
pregnancy maintenance after spaying and

(rat), 125, 59P

Deoxycortone, pregnancy after ovari ectomy affected by (rat), 130 150

Dephosphorylation quinne effect on ribonucleic acid histochemical (rat and rabbit), 120, 20

Depolarization, motoneurone excitatory post synaptic potential affected by (cat), 130 379

motoneurone inhibitory post synaptic potential affected by (cat), 130 346

potassium fluxes in axon affected by (Sepia), 128, 72

Depressor reflex, medullated and non medullated fibres in aortic nerve con cerned in (rabbit) 132 187

pattern of electrical stimulation of aortic nerve affecting (rabbit), 133, 232

Desheathed nerve, anode break excitation in (frog) 131 243

Detergent, peptic activity in gastric juice by Hunt method affected by 132, 69 P

Deuteranope, accommodation reflex in (man) 121 577

Deuterium oxide space, protein deficiency effect on (rat) 131, 377

Dextran hyaluronidase action on connective tissue permeability affected by (mouse) 117 4

DFP, acetylcholine synthesis in brain slices affected by (guinea pig) 131 335

behaviour affected by injection into cere bral ventricle of (cat) 125 490

brain electrical activity affected by (cat), 121 51P

cerebral ventricle injection of (cat) (Film) (T), 125, 69 P

Diabetes insipidus vesiculated neurones in hypothalamus affected by (dog) 121 174

Diaphragm dinitrophenol action on (rat), 130, 585

fibrillation potentials after deneration of (rat), (T) 123, 2P

force velocity of shortening relation in (rat) 123, 633

potassium adrenaline antagonism on (rat), 125, 225

studies on movements of (man) (T) 119, 29 P

Diaphragmatic movement, voluntary control of (man), 124 204

Diamox See Acetozoleamide

Dibenamine, liver blood flow affected by (rat), 123, 577

Dietary intake, energy expenditure comparison with (man), 128, 19P

Diet, hepatic fibrosis production by fat free (rabbit), 131, 25P

liver glycogen formation affected by (rat), 123 516

mating affected by (rat), 117, 69P salivary amylase affected by change in (man), 119, 153

Difference spectrum, carp and pike comparison of, 125, 612

Diffusion respiration (dog) (T), 130, 34P medullary centres activity affected by (dog and cat), 133, 360

metabolic acidosis and respiratory centre activity in (cat and dog), 130, 52P metabolic acidosis in (dog), 133, 347

Digital sweat glands age effect on activity of (man) 133 134

Digoxin, cardiac extra sounds affected by (dog), 122, 140

Dihydro-β-erythroidine, Renshaw cell activity affected by (cat), 126, 545, 131 160

Dihydroxyto\iferin, isolated sympathetic ganglion response affected by (rabbit) 117 207

'Dilantin' sodium, tissue reactions caused by (man and mouse) 117 32P

Dimercaprol See BAL

Dimethyl-4-phenylpiperazinium iodide, botulinum toxin effect on response of gut to (guinea pig) 127 459

Dinitrophenol oedema in isolated per fused lungs caused by (rabbit), 124 508 plain muscle affected by (guinea pig)

126 24P 127 626
4 potassium fluxes in giant axon affected by (Sepia) 128 66

skeletal muscle affected by (rat) 130 58; skeletal muscle affected by crat at a selected by (Septa) 128 34

sodium transport in erythrocytes affected by (man and chicken), 129, 402

Direct current motoneurone stimulation

by (cat) 126, 494 touch receptor response in skin affected by (frog), 132, 49

Discriminatory behaviour acquisition of (pigeon), 133, 43 P

Disuse atrophy neuromuscular junction changes in red and white muscle caused by (cat), 124, 430

- Diuresis, salts excretion in (man) 116, 8P ureter pressure affected by (mammal), 129, 437
- Diuresis rhythm, effect of 22 hr day on (man), 125, 34 P
- Diuretics, new born response to (rat and dog), 118, 384
- Diurnal rhythm, alveolar carbon dioxide tension showing (man), 122, 68
  - eosmophil counts showing (man), 133 456 12 hr cycle of activity effect on renal (man), 117 22
  - 22 hour day effect on urme flow (man), 133, 659
- Diurnal variation oxygen consumption showing (rat), 127, 487
- Divers, oxygen uptake of (T) 117, 38P
- Dorsal columns, action potentials from single fibres in (cat) (T) 129 7P
- Dorsal root, antidromic impulses in (cat), 121, 264
  - substance P in (dog), 126, 604
  - vasodilator activity in (horse) 118 313
- Dorsal root ganglion delay and blockage of sensory impulses in (frog), 127 252
- Dorsal root potentials, microelectrode recording of (cat), 130 642
  - reflex activity relation to (various) 116
    386
  - slow potentials in isolated spinal cord relation to (frog) 133 433
- Dorsal root reflex activity (frog) (T), 125 14P
- Dorsal root reflexes microelectrode re cording of (cat) 130 639
- Dorsal tracts conduction rate in (frog), 123, 324
- Dosage-response intradermal injections giving (guinea pig) 118 232
- Douglas bags CO loss rate from 116 22P emptying of (T) 116 3P
- Douglas bag technique critical exami
- D potential Purkinje cells showing (cat), 133 540
- Drug action sodium chloride and (guinea pig) 125 35P
- Drug antagonism non competitive (guinea pig) 124 33 P
- Ductus arteriosus arterial pressures affected by closure of (lamb) 118 18
  - blood flow in new born through (sheep)
    121 153
  - blood flow through (lamb) 126 575
  - cardiac murmur in newborn from patent (sheep) 128 344
  - central evanous relief by reconstruction of (dog) 127 53 P

- Ductus arteriosus, cyanosis due to pul monary arterio venous shunts affected by artificial (dog), 130,167
  - dilatation after constriction of (sheep), 132, 329 duration of patency in newborn of (sheep),
  - 128, 367 mechanism of constriction in newborn of
  - (sheep), 129, 28P murmur in newborn from patent (sheep)
  - (T) 126, 11 P
  - oxygen and asphyxia effect on closure in newborn of (sheep), 132, 304
  - patency at birth of (sheep), 122, 37P ventilation in foetus effect on (sheep), 130 206
  - Ductus arteriosus occlusion, arterial oxygen saturation after birth affected by (sheep) 128, 369
  - Ductus venosus occlusion in mature foetus of (sheep), 129, 64P
  - Duodenum, abomasal digesta flow rate into (sheep), 116, 86
    - electropotential changes of (dog), 131, 148 gastric acid secretion affected by acid in (dog), 130 233
    - pacemaking area of (dog) 132, 100
    - vagal control of gastric secretion inhibition by acid in (dog), 128, 39 P
    - vasopressin mactivation by homogenate of (rat) 132, 202
  - Dyes comea hydrolysis affected by (rabbit), 128 506
    - microinjection into giant axon of (squid), 131 596
  - Dynamic training, muscle strength af fected by (man), 129 328
  - Ear antidromic vasodilatation in (rabbit), 129, 75P
    - denervation effect on arteries of (rabbit), 121 603
    - pharmacological assay on denervated (rabbit) 121, 593
    - temperature effect on isolated (rabbit) 118 59 P
    - vascular responses in isolated (rabbit), 119 14P
    - vascular responses of 117, 50P
  - Ear lobe posture effect on thickness of (man) 130, 75
  - Ear vasoconstriction sympathetic in nervation in pyrogen induced (rabbit), 126 319
  - Ear vessels, temperature effect on rate of flow in (rabbit), 128 610
  - Earthworm, amine oxidase in gut of, 120,

Eck's fistula (man), 124, 64P

Ectoderm, vitamin A effect on development in tissue culture of (chick), 119, 470

Efferent nerve, cold effect on conduction in (cat), 130, 60

Egg albumin hydroxytryptamine shock and anaphylactic shock caused by (guinea pig), 128, 438

Egg-laying, stimulus to reflex (hen), 128, 250

Egg-white 48/80 effect on reaction of tissues to (rat), 120, 560

histamine liberation by injection of (mammal) 118, 258

Egg yolk, zinc excretion in (chicken), 119, 13P

Elastic tube, mathematical theory of oscillating flow in, 127 37P

Electrical screen, transparent, 117, 46P Electric organ membrane potentials in

single units of (electric eel) 119, 315 resting and action potentials in (electric eel), 116, 26 P

Electrocution cause of death in (cat and dog), 126 33 P

Electroencephalogram abnormalities, unidirectional de element in (man), 129, 52 P

intraventricular injection of tubocurarine effect on (cat), 130, 35P

Electrolyte excretion diurnal rhythm (in 12 hr cycle of activity) of (man) 117, 26

22 hr day effect on (man), 128, 44 P

Electromyograph, ink writer and cathode ray oscillograph comparison for 117, 36 P

Electromyography transistor pre amplifier for (T) 131, 25P

Electrophorus electricus acetylcholine utilization during discharge of (T), 117, 9 P

Electroplates discharge of individual (ray) 122 4P

membrane potentials in (electric eel) 119, 315

Electroretinogram (squirrel) (T), 125, 30P

evidence on origin of (T), 133, 46P cone and rod constituents of (various), 127, 595

new component of (man) 123, 36P pure cone retina (souslik) 130, 225 retina area illuminated effect on (frog)

134 353
retinal circulation occlusion effect on (rabbit), 133, 266

Electroretinogram, species difference in (dog and rabbit), 120, 30

Electro-titration apparatus Conwar burette modified to 134, 4P

Electrotonic potentials, crustacean muscle fibres showing (crab) 120 178 Embryo extract, insulin affected by

(chick), 125, 157
Embryonic bones, thyroxine action in

vitro on growth of (chick), 127, 427
Embryonic limb-bones, insulin effect on

in vitro culture of (chick), 125, 148 triodothyronine effect in tissue culture on

(chick), 133, 89 Embryonic nerve, electrical activity of

(chick), 122, 33P
Emotion antidiuresis in autotransplanted

kidney induced by (dog), 128 122 blood vasoconstrictor activity affected by (rabbit) 128, 521

urine flow and uterine motility affected by (dog), 126, 335

Emotional stress, thyroid activity affected by (rabbit), 126, 30

Emotional sweating sites of (man), 116,

Emphysema, respiratory response to carbon dioxide in (T), 119, 33 P

Endogenous creatinine clearance intuition lin clearance relation in 3 oung to (man) 118, 454

Endometrial reactions, in sow (T), 117, 75P

End-plate membrane electrophoretic ap plication of acetylcholine to two sides of (frog), 125, 16P

End-plate See Skeletal muscle and Motor end plate

End-plate potential amplitude of (frog), 124, 565

cations effect on (locust), 127, 93 factors affecting (cat), 132, 74

glucose concentration effect on (rat) 120, 612

inhibitory nerve impulses effect on (crab), 121, 375

magnesium effect on (frog), 124, 371 muscle stretch effect on (frog), 133 612 prolonged stimulation effect on (frog)

124 584 quantal components of (frog), 124 560 quantal composition of (cat), 129, 14P

quantal nature of (rat), 133, 571 resting muscle showing miniature (freg)

117, 109 resting potential relation to (locust) 121 543

sodium effect on (frog) 118 76

End-plate potential, statistical composition of (frog), 130, 114

sympathetic stimulation effect on (frog), 130, 564

transmitter effect during muscle action potential on (frog), 125, 549

End-plate resistance, transmitter effect during muscle action potential on (frog) 125 554

End-plate response, interpretation of (frog), 131 665

Energy exchange, pregnancy effect on (rat) 134 652

Energy expenditure climbing with loads at low altitude effect on (man), 128 300 individual variations in (man) 123, 74P ingested energy relation to (rat) 127, 486 patterns in voung men of daily, 128, 18P

Enteramine assay on intestinal prepara tions of substance P and (T), 117 2P fractionation of concentrates of (dog), 120 300

Enteric plexuses intestinal circular muscle reaction to drugs after removal of (T) 116 49 P

Enterogastrone gastric and pancreatic secretions affected by (cat) 123 1

Enzymes sodium and potassium inhibition and activation of 134 307

Eosinophil count, emotion and hormones action on (horse) 130 703

normal variation in (man) 133 456

Ephedrine postganghome denervation of nictitating membrane comparison with action of (cat) 124 28

Epidermis vitamin Aeffect in tissue culture on keratinization of (chick) 119 470

Epigiottic muscle respiration and activity of (m ) 126 518

Epigiottis proprioception at the joint of (ra.) 126 507

Episcope bench 125 3P

Frectores spinae electromyography in flexion of lumbar vertebrae of (Film) (T) 117 22P 119 41P

movements and pos ures involving activity of (man) 129 184

Eructation cure fluorographic studies of (sheep) (T) 129 40P

Erythritol erythrocyte permeability to (mainmal) 129 7P

Erythrocyte membrane phospha assa

Frythrocyte volume CO<sub>2</sub> partial pressum

(Text on (mammal) 123 367

<sup>2</sup> I'm 1 od of comma o 1 of (rablat) 116

mp use in m a are not of (mar) 123 22

Erythrocytes (man) (Film (T), 122, 10P adenosine and sodium transfer in stored (man), 131 34P

apparatus for recording volume changes of, 120, 20 P

ascorbone reduction by (man), 126, 54P cardiac glycosides action on, 128, 56P

cardiac glucosides action on, 125, 501 cardiac glucosides effect on potassium exchange of (man), 127, 33 P

cation concentrations in foetal and adult (sheep) 125, 18P

cation exchange in (chicken), 118, 36P cation transport in (chicken and tortoise), 125, 266

electrolyte reversal on transfusion of stored (man), 129 639

ervthritol permeation into (mammal), 129 7P

5 hydroxytryptamine and (man), 132 39 P

5 hydroxytryptamine effect on haemo lysis and on potassium loss with cold storage of (man) 134 484

haemoglobin kinetics in solution and in (man) 129 76

hexose permeability of foetal (mammal), 127, 318

hexoses transfer across membrane of (man) 125 163

hydrostatic pressure effect on Na efflux of (cat) 132 38P

intercellular plasma in centrifuged (man) 116 38P

ions distribution in suspensions of (man) 118, 40

kinetics of glucose entry into 118, 30 kinetics of glucose transfer across mem brane of (man) 120, 23 P

optical retardation of (man), 125 50P phosphatases distribution in (man), 116

phosphorus transfer rate into and out of (rat) 132 10

potassium movements in (horse) (T), 120, 54P

po assum motements in washed (mammal) 129, 464

respiration glicolysis and sodium trans port in (chicken) 124 19P

<sup>14</sup>Pb <sup>22</sup>P and <sup>31</sup>Cr as labels for 128 61P salt depletion effect on water content of (dog), 118 164

sodium and potassium fluxes in (man) 134 278

sodium and potassium linked movements in (man) 126–35P

sodium extrusion rate from (man) 121

Erythrocytes, sodium transfer in (man and chicken), 129, 476, (tortoise), 132, 414 sodium transport in sickle cell anaemia in (man), 129, 504

spectrophotometry of suspensions of, 119, 52P

titration curve of haemolysed (man), 118, 45

tonicity effect on sodium excretion rate from (man), 120, 63P

Eserine, accommodation with convergence affected by (man), 128 109

acetylcholine output in sympathetic ganglion affected by (cat), 119, 447

acetylcholine synthesis inhibition in brain slices by (guinea pig), 131, 331

auricles affected by (rabbit), 121, 360 auricle (isolated) affected by (rabbit), 118 31 P

behaviour affected by injection into cerebral ventricle of (cat), 125, 488

bladder contraction on nerve stimulation affected by (cat), 127 58

botulinum toxin effect on response of gut to (mammal) 127, 468

carotid sinus receptors sensitivity affected by (cat), 130 526

cholinesterase activity of auricle and its sensitivity to (rabbit), 123, 204

cooling action on auricle affected by (rabbit) 131, 193

esterase in normal and post heparin plasma affected by (dog and man), 127 300

heart lung preparation affected by (dog), 124 490

heart rate in perfused isolated preparation affected by (rabbit) 126 182

oxytocic factor output affected by in jection into supraoptic nuclei of (dog) 133, 330

plain muscle oxygen consumption affected by (guinea pig) 122, 127

plexus free circular muscle of jejunem affected by (cat) 119 387

Renshaw cell activity affected by (cat), 126, 547

Renshaw cell activity stimulated by acetylcholine affected by (cat), 131,

spinal cord affected by (cat) 122 72P

Esterases, cytochemical localization with 5 bromoindoxylacetate of (rat), 119, 36 P

histochemistry of simple (T) 119 6P

Ethanolamine phosphoric ester re generating liver containing (rat) 124, 459 Ether, baroreceptor discharge affected by (cat), 131, 464

choline acetylase in brain homogenates affected by (rabbit), 134 387

liver and brain temperature affected by (rat), 116, 193

renal vasoconstriction produced by (dog) 118, 140

spinal cord and root action potentials affected by (cat), 118, 405

sympathin content of mid brain and hypo thalamus affected by (dog), 123 466

tracheobronchial receptors affected by (cat), 123, 95

Ethylenediamines, pharmacological properties of substituted (mammal), 119, 25 P

Ethyleneimine, anti adrenaline action of (cat and dog), 118, 12 P

Evan's blue, blood volume determination affected by impurities in (rabbit), 123, 16

Excitability in internodal length curve construction of (frog), 117 98

Excitation membrane current in nerve with (Loligo), 117, 535

simple model to show propagation and (T), 117, 54P

Excitatory post-synaptic potential factors affecting motoneurone (cat), 130, 374

motoneurone inhibitory post synaptic potential interaction with (cat) 130,401

Exercise, age effect on energy expenditure and heart rate in (man) 131, 22 P

arternal CO<sub>2</sub> pressure in hyperphoca of (man), 122, 48P

blood adrenaline and noradrenaline affected by (horse), 128, 50 P

blood catechol content affected by (horse)
132 544

body temperature effect on ventilation during (man), 129 554

body weight relation to metabolic cost of (man) 121, 225

carbon dioxide stimulus to breathing in severe (man) 125 90

cardiac output during recovery and (Film)
(T), 123, 2P

desynchronization and twitch form of muscle affected by (man), 124, 318

experiment under field conditions on (man) 127 32P

forearm and hand blood flow affected by hot environment and (man) 125, 5

muscle blood flow after release of sym pathetic tone affected by (man) 117, 391 Exercise, oxygen administration effect on capacity for (man), 125, 118

oxygen increase effect on respiration and performance in (man), 120, 66P

pulmonary diffusing capacity affected by (man), 129, 243

pulmonary diffusing capacity measure ment during (T), 126, 41 P

renal function in hot humid environment affected by (man), 118 26 P

splanchnic blood flow affected by (man), 133 9P

sympathetic action on muscle blood vessels during (man) (T), 116 10P

ventilation, CO tension and body tem perature relation in steady state (man), 126, 49 P

water and salt intake in hot environment effect on (man) 127, 11

Experimental animals care of (Film) (T), 117, 2P

Expiration, abdominal muscles electro myographic activity in (man) 120 409

Extensor motoneurones, post tetanic potentiation in differentiating tonic from phasic (cat) 133 12P

Extensor muscles, reflex activity affected by disuse of (cat) 121 494 reflex interaction of synergic (cat) 117

TP

Extensor reflex, flexor reflexes of muscular origin compared with (cat) 133 446 sustained (cat) 122 302

Extensor motor units muscle afferent excitation effect on reflex activity of (cat) 122, 302

Extracellular fluid, intracellular concentration compared with (guinea pig and rat) 120 1

Extracellular space nerve containing (cat) 128 478

Extraocular muscles, responses in brain stem to stretch of (cat) 128 182

stretch receptors in (cat and monker)
127 400

stretch reflex probable absence in (T)
126 30P

Extra-systole QRS triggered stimulator for producing (mammal) 130 38P

Eve absolute sensitivity of (man), 123-417 accommodation in bright and empty visual field of (man) 118-65P

accommodation in darkness of (man) (T)

adenohypophysis activity when trans planted to (rabbit) 131 141 analysis of light reflected from (cat) 117,

47 P

Eye, bleaching experiments on (squirrel), 127, 587

bleaching spectra of (guinea pig), 127, 572

Bunsen Roscoe Law in short duration of stimulus to (man) 118, 135

cine film record of lens changes during accommodation of (man) 121, 27 P

compensatory rolling movements of (man), 132 25P

depth of field measurement in (man), 125 11P

depth of focus of (man), 125, 29P

electrical activity in (locust) 126, 27P electrical properties of coats of (frog), 134, 339

elementary teaching model of (T), 125, 14P

focus depth of (man), 120, 59P

functional stability of (man) 123 417 illustration of effects of diffraction in (man) (T), 116, 52 P

movements during fixation of (man), 116 290

movement perception by (locust), 125 566

mydratics action on albino and pig mented, sympathetically denervated (rabbit) 119, 111

responses of (locust), 121, 10P

rhodopsin difference spectrum and photo sensitivity in living (man) 134, 11

rhodopsin measurement in (man), 126, 36P

site of electrical excitation of (man) 127

spectral sensitivity of light and dark adapted (cat) 123 413

tapetal reflectivity in (cat) 119, 30

visual stimulation effect on electrical responses of (locust), 133, 71

Eye convergence ciliary muscle power in accommodation of (man), 128 104

Eye fixation darkness effect on involuntary movements during (man), 119,

my oluntary eye movements during (man)
119 1

Eye movements eve fixation affecting (man) 119 1

Eye muscles, afferent discharges from extrinsic (cat) 118, 49 P

long latency responses in mid brain to stretch of (goat) 120, 491

short latency responses in midbrain to stretch of (goat), 120 479

stretch receptors in (cat and monker)

Eye-muscle nuclei, response to stretching of eye muscles in (goat), 120, 492

Eyeball protrusion, registration of (rat) (T), 128, 3P

Face, gustatory sweating on (man), 124 530 posture effect on tissue fluid of (man), 130, 72

Facial pit organ, infra red receptors in (snake), 134, 47

Facilitation, flevor and extensor refleves differences in (cat) 133, 450

insect striated muscle showing (cicada), 124, 276

Factor I central synaptic transmission affected by (cat), 130, 446

Faecal energy, ingested energy relation to (rat), 127 483

Faint, antidiuretic substance excretion resulting from (man), 122, 220

False tendons structure and electro physiology of (dog and goat) 126, 30 P

Fast liver glycogen on different diets affected by (rat), 123 520

Fasting total energy expenditure during re feeding and (rat), 127, 10 P

Fat intestinal absorption of (ferret), 130, 6P large intestine excretion of (T) 128 63P lipolysis in jejunum of (dog) 134, 515

thermal conductivity measurements of (man and beef) 120, 35 P

Fatigue, force and integrated electrical activity relation in muscle affected by (man) 132, 678

site in muscle of (man), 123 560

Fatty acids <sup>14</sup>C estimation in degradation of, 128, 63 P

chromatographic separation of para dimethylaminophenyl ureides of lower (T) 121, 41 P

rumen absorption of (sheep) 122 103 rumen and duodenal contents containing volatile (sheep), 116, 99

skin permeability affected by deficiency of essential (rat) 126 55P

temperature and oxygen consumption relation affected by (T) 125 62P

Fatty acid monolayers temperature relations in spreading from solid state of (T) 125, 62P

Feeding behaviour, hypothalamic lesions affecting (cat and monkey) 127 143

'Feeding centre' amphetamine action on electrical activity of (cat) 132 358

Feline pneumonitis, incidence in labora tory animals (cat) 118, 35P

Femoral artery, linear velocity of flow in (dog), 127, 536

Femoral artery, post contraction hyper aemia and dilatation of (cat), 131 31 P pressure gradient relation to flow in (dog) 127, 559

systolic backflow in (dog), 122, 73P velocity changes during cardiac cycle in (dog) 120, 257

Femoral artery dilatation contraction of muscles of lower leg causing (T), 120 6P

Femur, hypervitaminosis A effect on in vitro growth of (chick), 116, 328

Fever, body temperature regulation during (man), 125, 21 P

Fibroblast, oestrogens action in tissue culture of vagina on (mouse), 131, 509

Fick principle cardiac output measure ment by flowmeter and 118 299

Fifth nerve nucleus, extraocular muscle stretch effect on (cat) 128 184

eye muscle stretching giving responses in (goat) 120, 480

long latency responses to stretch of eve muscles in (goat), 120, 500

Film records apparatus for analysis of 127, 25P

Finger, arm position effect on heat elimination from (man) 127, 11P

clinical assessment of postural sensation in (man), 123, 42P

vasodilator substances effect on cold (man) 121, 46

venous congestion effect on heat climination from (man) 127, 12P

Finger muscles, fatigue in (man) 128 33P Finger pressure, muscle and tendon receptors in control of (man), 128 55P

Finger tapping rates differential (man) 122 582

Finger tremor analysis of frequencies of (man) 134 601

Firefly ATP determination by luminescence of (T) 126 11P

Fixation, eye movements during (man) 116, 290

Flame photometer photomultiplier tube with (T), 119, 7P

Flash photolysis myoglobin and carbon monovide velocity of combination determined by (whale) 134, 112

'Flexion-relaxation' erector spinace muscles showing (man) 129, 192

Flevor muscles reflex activity affected by disuse of (cat), 121 494

Flexor reflex cutaneous and muscular comparison (cat) 123, 251

extensor reflexes of muscular origin compared with (cat), 133, 446

'Flexor twitch', 'pluck' reflex comparison with (cat) 123, 251

Flicker resonance, scotopic blue shift' obtained by electrical measurement of (cat) 122, 386

Float volume recorder in Perspex, 116

Flowmeter (T), 118, 24P improved electric, 127, 1P integrating soap film 124, 6P recording, 124, 10P

Fluorescein blood aqueous barrier and transfer of (rabbit) 132 55P

Fluorescence method of study of intensity spectra and polarization of (T), 128, 68P

Fluoride, cation transport in erythrocytes affected by (chicken), 125, 269

gastric acid secretion inhibited by (cat), 122 203

gastric juice electrolytes affected by (T), 128 39P

gastric mucosa electrolyte output affected by (cat) 133, 317

visual vellow breakdown affected by (frog), 123, 390

Fluorine direct titrimetric determination in drinking waters of, 116 18P kidney affected by (rat), 116 18P

tooth enamel distribution of (man) 121

Fluorocitric acid brain metabolism affected by (pigeon), 119, 423

convulsions caused by (pigeon) (Film)
(T) 120 45P

morphic ion environment influence on convulsions induced by (pigeon) 120, 50P

Fluorophotometer intra ocular dynamics studied by 120 5P

Foetal asphyxia, cardiovascular responses to (guinea pig) 120 538

Foetal blood, mositol in (mammal), 117, 70P

Foctal blood pressure artificial ventila tion effect on (mammal) 133, 205

Foctal circulation adrenaline noradrena line and acety leholine action on (sheep), 134 139

adrenalme and noradrenalme effect on (T) 118 34 P

(1) 118 34 P

advantage and noradrenaline effect on

(rabbit and guinea pig) 118 282

birth affecting (mammal) 133 202 di tribution of (lamb) 126 563

oxygen lack effect on (sheep) 134 149

Foctal fluids gestation effect on composition of (sheep) 129 66P

Foetal haemoglobin, carbon monoxide combination with (sheep), 127, 47 osmotic pressure of solutions of (T), 125, 66 P

Foetal heart, perfusion of isolated (man) (T) 117, 79 P

Foetal lung, ventilation effect on pulmon ary circulation in (lamb), 118, 12

Foetal membranes, collagen increase with growth of (rat), 128, 228

physical properties and collagen and hexosamine contents changes in pregnancy in (rat), 132 482

Foetal movements (man), (Film), 132 5P

Foetal tissues, general histology of (whale) (T), 120 22 P

Foetus acetate uptake by (sheep), 129, 67P

adrenaline and noradrenaline action on perfused heart of (man), 120, 122

arterial pressure and oxygen saturation affected by age of (sheep) 130, 194 autonomic nervous control of circulation

development in (sheep), 134, 153 blood circulation in (sheep), 126, 38P

blood fructose species variation in (mammal), 132, 146 cardiovascular reflexes in (guinea pig).

118, 68 P collagen increase with growth of (rat).

collagen increase with growth of (rat), 128 225 fructose formation from maternal radio

active glucose by (sheep), 129 356 glucose transfer to mother from (monkey), 132, 298

hexose permeability of erythrocytes of (mammal), 127, 318

mositol in body fluids of (mammal), 126,

lung ventilation effect on pulmonary vascular resistance in (sheep), 121, 144

noradrenaline in (T), 124, 63P

oxygen consumption relation to arterial  $O_2$  saturation in (sheep), 133, 11 P

oxytocic and pressor factors in pituitary gland of (mammal), 119 51 P

oxytocic/vasopressor activity of post pituitary in (mammal), 121, 210

thyroxine uptake from maternal circu lation by (rabbit) 133 181

urine collection from (sheep), (T) 132 3P

urme production in (sheep), 130, 13P
\asopressor/oxytocic ratio in post pitui
tarv of (dog) 120 143
\text{venous pressures in (sheep), 128, 385}

Folic acid, aminopterin action affected by (chick), 123, 619

Folic acid antagonists, mitosis affected by (various), 123, 606

Food, gastric juice secretion relation to taking of (sheep), 116, 105

self selection during growth, pregnancy and lactation of (rat), 124 64P Foot, local temperature effect on blood flow

in (man) (T), 118, 68P Foot blood flow, anterior poliomyelitis

effect on (man), 120 24P body temperature increase in chronic

spinal man effect on 132 11P local temperature effect on (man), 124.

recording in erect posture of (man), 127, 6P

spontaneous variations in (man), 124 349 Foot plethysmograph rapid assembly in operating theatres (T) 130, 1P

Foot venous bed distensibility of (man), 129, 74P

Foramen ovale, closure in newborn of (sheep) 122, 38P, 128, 384 inferior vena caval blood passing

through (lamb) 126 572 Forced respiration chest and diaphragm atic movements in (man) 124 208

Force-velocity relationship muscle (man), 117 386

two isometric contractions of muscle giving (frog) 122 172

Forearm, capacity and distensibility of blood vessels in (man), 131 290

circulation changes with repeated exposure to heat (man) 125 1

local cooling effects on (man) 133 73P noradrenaline effect on blood flow through (man) 123, 443

sweating and vasodilatation in (man) 134. 18P

sympathectomy effect on capillary filtra tion rate in (man) 127 6P

Forearm blood flow acetylcholine and histamine action on (man) 120 160 adrenaline action after nerve block to

(man) 118 576

adrenaline action on blood lactate and (man) 132, 372

adrenaline effect on (man) 118 66P age affecting response to hot environment of (man) 133, 124

ATP effect on (man) 125, 581

body heating effect after adrenaline ionto phoresis on (man), 134 613

body heating effect on skin and muscle (man), 134, 444

Forearm blow flow, coughing effect on (man) 122, 352

hyperventilation effect on (man) 118

intravenous pitressin action on blood lactate and (man), 132, 10P

leg heating and posture effect on (man), 132, 46P

leg raising effect on (T), 131, 23P motor nerve block effect on (man) 132,

nerve block effect on (man), 132, 16P pitressin effect on (man), 126 50P skin and muscle components of (man), 128 258

skin and total (man), 123, 33P

strain gauge and volume plothy smograph measurement of (man), 133, 24P

strain guage and plethysmograph com parison in measurement of (man) 121

transmural pressure effect on (man), 125 508

venous congestion effect on (man) 125

venous distension effect on (man), 125 525

Forearm blood vessels, capacity of (man), 129, 24P

transmural pressure effect on (man) 125

Forearm veins venous pressure effect on blood oxygen content in deep (man) 133 255

Forearm venous oxygen saturation body heating effect on deep and super ficial (man) 134, 444

Forearm skin sympathetic cholinergic vasodilator fibres to (man), 134 13P

Forearm volume repeated exposure to heat effect on (man) 125, 9

Forehead gustatory sweating on (man) **124** 530

sweating reactions of (man), 116, 26 48/80 acid gastrie secretion caused by (cat) 119 233

anaphylactic shock comparison with (guinea pig) 118 462

cutaneous pain responses to (man), 120

histamine release from mitochondria by (guinea pig) 131, 211

ileum movements affected by (guinea pig) 124, 220

tissue histamine release by (dog and rat), **120** 550

Four-channel tap, respirator, studies with (man), 133 34P

- Fores dark adaptation in parafores and (man) 125 418
  - measurement of brightness of small fields by central (T), 122, 35 P
  - subjective brightness and size in the central (man), 123 315
  - threshold for vision and for accommodation reflex from (man), 123 362
- Fovea cone pigments bleaching and regeneration of (man) (T) 133 35P
- Foveal photopigments normal and colour blind (man) 129 41 P
- Foreal spectral sensitivity cone mono chromats (man) 121 565
- Free fall tendon reflexes in (man) 133,
- Freeze-drving apparatus for 121, 36P
- Freezing resuscitation from (mammal) (T)
  - surpended animation during (rat) 128
- Frogmen oxygen uptake of (T) 117 38 P Frozen powdered tissues molecular con centration changes at 0° C of (T) 125 66 P
- Fructose age and species effect on cell' plasma distribution of (mammal) 134
  - crythrocyte penetration by (man), 125,
  - fortal formation from maternal radio actus gluco-e of (sheep) 129 356
  - fortal species differences in (mammal) 132 146
  - glucos simultaneous measurement with that of 116 18P
  - placental formation of (sheep) 129 370 placental transfer of (man and monkey) 132 295
- Functional residual gas volume single breath technique in measurement of (man) 134 640
- Galactose glucos effect on small intestine absorption of (rat) 119 228
  - m ulm action on penetration into per fund heart of (rat) 124 20P
  - in alm effect on penetration into perfused hart of (rat) 131 529
  - small intestine absorption of (rat) 119
- Gall bladder arternal pressure affected by timulation of (cat) 119 46P
- bil duet ligation effect on initotic activity of epithelium of (guinea pig), 119 21 P
  - culture in citro of whole (guinea pig) 124

- Galvanic polarization, labvrinth impulse discharge affected by (rav) 127 104
- γ efferents, cerebellar control of muscle (cat) 130 213
- γ fibre activity, de-efferentation and deafferentation of muscle effect on (cat) 122 503
- Ganglion depolarization and block in (cat), 119 43
  - monamine oxidase present in (cat and rabbit), 126 440
  - post ganglionic section effect on trans mission through (rabbit) 123, 565
  - See also Superior cervical ganglion
- Ganglion block, body temperature response to cold affected by (rat) 133, 336
- Ganglion cells preganglionic denervation effect on reactions of (cat) 126 101
- Ganglion nerve cells, two types of (pig) 125 64P
- Ganglionic blocking drugs, classification of 119 49
- Gas-analysis apparatus for student use, 122 7P
  - class use (T), 133, 34P
- Gastric acid secretion fluoride inhibition of (cat), 122 203
- Gastric afferent fibres activity of (goat) 128 594
- Gastric analysis tubeless (man), 121 41 P Gastric blood flow, pilocarpine action on (guinea pig), 124 62 P
- Gastric contraction afferent discharge during (goat and cat) 128, 595
- Gastric emptying test meal volume influence on (T) 120 23P
  - volume effect on (man) 126 459
- Gastric fistula, permanent venous cannula in animal with (dog) (T), 128 37P
- Gastric juice secretion from abomasal pouch of (sheep) 116, 103
- Gastric motility vago vagal reflex effects on (cat) 132, 54P
- Gastric motor reflex afferent and efferent lumbs of (sheep and goat) 131 251
- Gastric movements, central nervous control of (sheep and goat) 131 248
- Gastric mucosa fluoride effect on electro lyte output of (cat) 133 317
- Gastric musculature acetylcholine and other humoral agents action on (sheep) 125-475
- Gastric potentials measurement of (dog) 128 26P
- Gastric pouch motor and secretors inhibition of duodenal origin of (dog) 132

- Gastric pouch, secretion and motility simultaneous investigation in (dog) (T), 121, 3P
- Gastric secretion (Film) (T), 118, 24P blood flow effect on (cat), 121, 433
  - compound 48/80 effect on (cat), 121, 528
     effect on acid (cat), 117, 73P
    causing acid (cat), 119, 233
  - denervation effect on duodenal acid influence on (dog), 130, 233
  - fluoride action on (cat) (T), 119, 53P
  - gastric acidity and urine histamine during stimulation of (dog), 133, 51 P
  - histamine action on (cat), 121, 445
  - 5 hydroxytryptamine effect on (T), 129, 62P
  - nsulin hypoglycaemia and psychic stimu lation on Heidenham pouch (dog), 120, 383
  - intestinal extracts causing (cat) 121 20P
  - method for continuous recording of acid (rat), 128 35P
  - noradrenaline action on histamine in duced (dog) 133 498
  - pectin meal sham feeding effect on (man), 119 260
  - pyloric antrectomy effect on Heidenhain pouch (dog), 123, 174
  - test meal volume changes effect on (man), 117, 289
  - urogastrone enterogastrone and mepyr amine maleate action on (cat), 123, 1 urogastrone inhibition of (dog) 129, 539
  - vagal control of duodenum acid inhibition of (dog) 128, 39 P
  - vago vagal effects on (cat) 129 54P
- Gastric stretch receptors drugs action on (cat) 126, 271
  - study of (cat) 126 255
- Gastrin, histamine release by (cat) 123
- Gastro-intestinal tract histamine distribution in mucosa of (dog) 120, 352
  - histamine profile of mucosa of (dog) 117, 31*P*
  - 5 hydroxytryptamine identified in (dog and horse) 120, 298
  - hydroxytryptamine release from (dog) 126 248
  - monoamine oxidase present in (cat) 126, 440
  - simultaneous measurement of absorption and transit in (rat) 131 452
- Gastrocnemius muscle fibre types in (man), (T) 119, 34P
- Geniculate neurones, fluctuations in excitability of (cat), 134 541

- Gestation, autonomic nervous control of circulation development during (sheep) 134, 153
  - foetal fluids composition changes during (sheep), 129 66 P
- Giant axon, apparatus for quantitative in jection of substances into (T), 125 14P calcium effect on sodium permeability of (squid), 128, 40P
  - calcium permeability of (Loligo) 128 41P injection by microsyringe of substances into (squid) 131, 592
  - intracellular electrode system in studies of ionic mobilities in (squid), 129 16P membrane conductance components in
  - (Loligo), 116 473 metabolic inhibitors effects on phosphate esters of (squid), 132, 35 P
  - 42potassium influx and efflux from (Sepia), 128, 61
  - potassium mobility and diffusion co efficient in (Sepia), 119, 513
  - radioactive potassium movement and membrane current in (Sepia) 121, 403 4sodium offlux from (Sepia), 128 28
- Giant nerve fibres, after effects of impulses in (squid), 129, 51 P
  - after effects of impulses in (Loligo) 131
  - in Protopterus, 129, 42P
- Giant spikes, Purkinje cells showing (cat) 133 527
- Glass microelectrode, pH measurement in large cells by, 124, 1P
- Glassware, indelible marking of (T) 128 63 P
- Giomerula filtration rate extracellular volume depletion effect on (dog) 116, 312
  - hypertonic infusions effect on (dog) 132,
  - phosphate clearance in measurement of (man) 130, 275
  - phosphate Tm affected by (man) 131 5.77 plasma glucose concentration effect on (cat), 124 616
  - sodium excretion affected by acute reduction in (man) 117, 218
- Glomerulus enzyme activities of (rat and dog) 126 53 P
  - enzyme activity shown by neotetrazolium in 126, 9P
- Glucose absorption by everted sac of small intestine of (rat and hamster) 123 130 absorption by stomach and intestine of
  - (rat), 134 531 age and species effect on cell/plasma distribution of (mammal), 134, 88

- Glucose, aqueous humour cerebrospinal fluid and plasma (rabbit) 129, 113
  - denervated sympathetic ganglion responses affected by (cat) 130 160
  - end plate potential in skeletal muscle affected by concentration of (rat), 120 612
  - errthrocyte penetration by (man) 125, 170
  - fortal erythrocytes permeation by (mammal) 127 319
  - gastne stretch receptor activity affected by (cat) 126, 273
  - growth hormone effect on transfer across blood aqueous barner of (rabbit) 127, 247
  - meulin effect on blood aqueous barrier to (rabbit) 116 414
    - penetration into perfused heart of (rat)
      131 531
    - utilization by isolated heart of (rat), 123 260
  - mtestinal absorption of radio active (dog) 134 7P
  - intertinal and gastric absorption of (rat)
    131 456
  - in the intestinal absorption of (T) 128 84P
  - kinetics of placental transfer of (sheep), 118 23
  - micro-analysis by glucose oxidase of 130
  - placental transfer of (sheep) 129 352 369, (man and monkey) 132 293
  - potassium influx into erythrocyte affected by (man) 134 284
  - skin permeability to (rabbit) 133-174 small intestine absorption of (rat) 119 210
  - water absorption from small intestine (isolated) affected by presence of (rat) 130 656
  - Glucose absorption in vitro intestinal preparation and (rat) 129 1
    - Phlorhizm action on (rat) 134 681 Phlorhizm inhibition in vivo of (rat) 131 16P
  - Glucose excretion insulin effect on (cat) 124 623
  - Glucose metabolism diet effect on diaphragm muscle (rat) 123 534
  - Glucose reabsorption hypertonic in fusions effect on renal (dog) 132 213 pla ma glucose concentration effect on (cnt) 124 614
  - Glucose space in the body (T) 119 28P Glucose tolerance pregnancy effect on (rabbit) 120 68P

- Glutamate cation transport in ervthro cytes affected by (chicken), 125, 271 regenerating liver containing (rat), 124, 457
  - transamination during absorption by small intestine of (dog), 133 39P
- Glutarnic acid oxidase liver containing (cephalopods) 128, 7P
- Glutamic-aspartic transaminase liver regeneration and content of (rat) 125
- Glutamic dehydrogenase, liver regenera tion and content of (rat), 125 251
- Glutamine, ammonia formation in kidney slices from (mammal), 124, 8
- Glycogen diet effect on content in diaphragm of (rat) 123, 539
  - diet effect on formation in liver of (rat), 123 516
- Givcolysis cerebral cortex histology re lated with (rabbit) 120, 271
  - cornea and (rabbit) 126 396
  - cornea hydration affected by inhibitors of (rabbit) 128 505
  - sodium transport in ervthrocytes relation to (man and chicken), 129, 495
- Golgi-cell hypothesis of inhibition evidence against (cat) 117, 450
- Golgi tendon-organ, knee joint containing (cat) 124 480
- Gonadectomy thyroid activity affected by (rabbit), 131-71
- Gonadotrophic hormone adrenaline and acid injection into hypothalamus liber ating (rabbit), 132, 577
- Gracile nucleus action potentials from single cells in (cat) (T), 129, 7P
- Grass olfactory membrane deodorization of (sheep) 130 547
- Green modulator curve, cone spectral sensitivity curve and (squirrel), 127 596
- Green receptors spectral sensitivity curve of (man) (T) 117 58P
- Green rods observations on (frog) (T) 122 35P
- Group II afferent volleys, supraspinal influence on central effects of (cat), 132, 59P
- Growth reasumation after hypothermia effect on (rat) 128 462
  - therexine effect on in tito bone (chick), 127 427
- Growth hormone adrenal cortex mitotic activity after hypophysectomy affected by (rat) 127 273
  - adrenalectomy effect on diabetogenic action of (dog and cat), 121 28

Growth hormone, cardiac hypertrophy and (rat), 116, 76

cardiac hypertrophy and blood pressure restoration after hypophysectomy by (rat), 120 23 P

glucose transfer across blood aqueous barrier affected by (rabbit) 127, 247 glucose utilization by muscle affected by (rat), 123, 57 P

heart weight and blood pressure after hypophysectomy affected by (rat), 124, 64

muscle performance affected by (rat), 116, 129

Guanidine derivatives, histamine action affected by (guinea pig), 123 39 Guinea-pig, blood volume of, 132 469

Gustatory sweating, environmental tem perature effect on (man), 124, 537

Gut response, osmosis influence on (T), 120 22 P

Habituation, evidence for non-specific mechanism of (man) 122 43P

rotatory and caloric nystagmus (rabbit), 123 33P

Haematology, refractometry applications in (man), 120 67 P

Haemex effects of (T), 128 84P

Haemodynamics principle of superposition in 130 18P

Haemoglobin, C and G in West Africa (T) 131, 22 P

carbon monoxide and nitrogen diffusion coefficients in solutions of (sheep) 118 264

earbon monovide combination with foetal (sheep) 127 47

carbon monoxide high percentage satura tion effect on equilibrium with (sheep) 126 359

haemorrhage effect on concentration of (man) 129 586

Himalayan Expeditions effect on level of (man) 126 38 P

isolated perfused ear affected by (rabbit)
131 183

kineties in solution and in red cell at 37° C of (man) 129 65

nitric oxide reactions with (sheep) 128

oxygen and carbon monoxide reaction with (earthworm and lugworm) 123 35P

oxygen and carbon monoxide reactions with (lamprey), 128 70P

temperature and p chloromercuribenzoic acid effect on oxygen reaction with (sheep) 122 45P Haemoglobin, tropics effect on concentration in blood of (man), 123, 10P

velocity constants of carbon monoxide combination with, 134, 123

velocity constants of reactions of (mam mal), 117, 76 P

Haemoglobin E, blood groups in Veddas and (man), 127, 41 P

ın Asıa (man), 130, 56P

Haemoglobin estimation, ear lobe as source of blood for (man) 121 43P

Haemoglobin-Krebs saline, liver per fusion with (rat) 124, 520

Haemolysis, hydroxytryptamine effect on hypotonic solution, 128 23P, (man) 134, 484

phosphorolysis affected by (man) 116 122

Haemolytic anaemia, sodium extrusion rate from erythrocytes in (man), 121, 475

Haemophilia, blood coagulation in (man) 122, 541

Haemorrhage atrial stretch receptors activity affected by (dog), 131, 578 blood vasoconstructor activity affected by

(rabbit) 128, 525

intrarenal pressure affected by (dog), 123, 136

liver blood flow response to (rat) 126,

ovigen content tension and saturation of arterial blood affected by (cat) 125, 77

recovery from acute (man), 129, 583 smonortic nerve impulse activity during (T) 119 31 P

tail circulation reaction to (monkey), 122,

thoracic cage blood flow affected by (dog) 117 64 P, 121, 83

thyroid gland activity affected by (rabbit) 126, 31

tidal air affected by (dog) 116 39

Hagfish heart innervation in 131 257

Haldinger effect measurement of (man)
123 30P

measurement and clinical use of (T) 132

53P retinal pigment and (man) 124 543

Hair cells microphonic activity of lateral line (ruff), 116 153

Hair nerve fibres size and response of (cnt) 117 146

Haldane gas analysis apparatus modification for use by jumor students of 124 60 P

Haloethylamines anti adrenaine and anti histamine actions of (cat) 116 37 P

Hand circulatory changes with repeated exposure to heat (man), 125 1

Hand blood flow acetylcholine and hist amine action on (man) 120 160 ATP effect on (man), 125 581

body posture effect on (T), 128 59P

humid heat repeated exposure effect on (man) 128 57P

intra arterial atropine infusion effect on (man) 131 640

local and indirect heating effect on (man) 129 23P 131, 657

pitressin infusions effect on (man) 127

posture effect on (man) 130, 467

rapid alteration in radiant heat exchange between front of body and environment effect on (man) 131 29P

stimulation of central end of lumbar sympathetic chain effect on (man) 127

sympathectomy effect on response to adrenaline and noradrenaline of (man), 129 50

Hand blood vessels sympathetic vaso dilator nerves to (man) 131 647 transmural pressure effect on (man), 131 277

Hand calorimetry class experiment on (T) 118 56P

Hand heat loss subatmospheric pressure effect on (man) 128 38P

Hand plethesmograph water filled with temperature control 123 62P

Hand vasomotor response hot and cold infusions inducing (man) 125 361

Harderian glands high temperature effect on (mouse) 129 3P

Head-down position renal response to (T) 120 22P

Head holder new (rabbit) 123 22P universal (T) 123 30P

Head movement eve fixation affected by (man) 119 11

Hearing intensity pitch dependence and its relation to threshold for high fre quencies in (T) 131 25P

pitch intensity dependence in (man) 134 742

Hearing deficiency pitch intensity rela tion occurring with (man) 129 225

Heart acetylcholme action on (Lamelli branchs) 125 208 (H L) 128 277

acctaleholme and adminatine like sub stances release from isolated (rabbit) 134 ,,5

activeholms and blocking agents effect on perfused (ent) 119 461

Heart, acetalcholme like substance forma tion in perfused isolated (rabbit), 125 31P, 126 181

adrenaline and noradrenaline effect on perfused foetal (man), 120 122

amino acid usage by isolated (guinea pig) 117, 9P

amino steroid action on (rabbit), 129, 10Pcalcium effect on potassium contracture of (frog), 134, 593

calcium effect on vagal inhibition of (anuran) 118 23P

cinematograph study of movements of (rabbit) (Film) (T) 116, 3P

cortisone effect on intact and perfused (dog and rabbit), 133, 45P

drugs effect on vagal stimulation action on perfused (rabbit) 131, 678

growth hormone action on carbohydrate metabolism of perfused (rat) 133 7P

histamine action on (Mytilus and Amphi desma) 126 619

inner, ation of (hagfish and lamprey), 131.

insulin effect on glucose utilization of 150 lated (rat) 123, 260

on perfused (rat) 118 27P

on sugars penetration into perfused (rat) 131, 526

intraventricular conduction in (man), 121

mechanical model of (T) 117, 19P, 127. 358

minute rhythmic contractile waves of (mammal) (Film) (T), 120 45P

phosphorus transfer rate into and out of (rat) 132 10

potassium citrate arrest of (dog) 131 25P potassium contracture of (frog ) 132 45P. 134 585

potassium effect on action potential of (turtle), 132 157

rhythmic contractile waves after cessa tion of beat of (mammal), 120, 41P

sodium and potassium content of different parts of (ox) 118 278

staircase' phenomenon and calcium action on (frog) 134 569

temperature effect on rate of transmission in different parts of (dog) (T) 130 53P vago sympathetic trunk stimulation

effect on perfused (frog) (T), 123, 2P ventricles size in foetal (lamb), 126 578

veratramme and veratrosme effect on rhythm of acutely denervated (cat) 124 40P

Heart beat reanimation after hypothermia effect on (rat), 128 457

- Heart block sodium lactate effect on (man), (T), 130, 36 P
- Heart disease, oxygen inhalation effect on respiration in (man), 127, 498
- Heart-ductus arteriosus preparation, oxygen saturation effect on (lamb), 132, 314
- Heart lever simple and sensitive (frog) 128 32P
- Heart-lung-kidney preparation, sub stance U forming factor excreted by (dog) 133 562
- Heart-lung machine for use in man,  $127 ext{ } 51P$
- Heart-lung preparation, anticholm esterases effect on (dog) 124, 489
  - anticholmesterases and acetylcholme action on (dog) 126 43 P
- Heart membrane potential vagal and sympathetic nerve impulses effects on (frog), 129, 48 P
- Heart rate, acetylcholine release from heart affected by (rabbit) 134 558
  - asphyxia effect on foetal (guinea pig), 120, 540
  - Bambridge reflex dependence on initial (dog), 130, 687
  - bicarbonate and carbon dioxide effect on auricle (rabbit), 129, 100
  - chemoceptors and (T) 121 22P
  - condenser manometer in measurement of, 121, 29P
  - increased venous return effect on (dog), 122,50P
  - intrapulmonary pressures influence on (man) 134 5P
  - intravenous infusions effect on (dog), 127, 31P, 128, 310
  - quick response ratemeter for measure ment of 129 4P
  - self regulating amplifier and ratemeter for measuring (T) 133 6P
  - sympathomimetic amines action on de nervated (cat) 124, 17
  - vagus stimulation after effect on (T) 130 22P
- venous return increase by opening arterio venous fistula effect on (dog) 130 674
- Heart rhythm eserme action on (rabbit), 121, 367
- Heart sound venous return relation to third (man) 116 7P
- Heart weight adrenocortical hormones after hypophysectomy effect on (rat), 124 75
  - body weight effect on (rat) 124 40 growth hormone after hypophysectomy effect on (rat), 124 64

- Heat, facial pit organ sensitivity to (snake) 134, 56
  - hand blood flow affected by local and indirect of (man), 131, 657
  - thyroid and salivary gland activity affected by exposure to (mouse) 128, 49P
- Heat stress, circulatory reactions to postural change as index of (man), 127 55 P
  - rectal, bicarotid trunk and pulmonary artery temperatures in (calf), 130, 46P
- Heat transfer skin temperature and outaneous sensibility relation to (man) 126 206
- Heidenhain gastric pouch, psychic stimu lation and insulin hypogly caemia effects on secretions of (dog), 120 383
- Heidenhain pouch pyloric antrectoms effect on secretory response to central vagal stimulation of (dog), 121 16P 123, 168
- Hemiplegia, peripheral nerve ischaemia effect on disorders of movement fol lowing (man), 123 43 P
- Heparin, blood congulation affected by (man), 122, 562
  - lipaemic clearing action of (dog) 123 303 lipoprotein migration affected by (rabbit) 127, 225
  - mast cell tumours containing (dog) 125, 47 P
  - plasma esterase activity affected by (dog) 123, 303
- Heparin clearing factor, hipoprotein mi gration affected by (rabbit), 127, 225
- Hepatectomy, amino acids in blood and liver following partial (rat) 124, 443
  - cardiac output affected by (dog) 119
  - collagen regeneration after partial (rat) 117 262, 123, 482
    - liver composition after partial (rat) 117 269
  - reticulo endothelial system activity affected by partial (rat) 128 1
- Hepatic artery adrenalme acetylcholme etc action on (dog) 128, 417
  - bromsulphthalein removal by (dog) 131 21 P
  - hepatic vem anastomosis with (dog), 122
    51 P
- Hepatic arterial-hepatic venous shunt evidence for (T) 118 24 P
- Hepatic blood flow bromsulphalem extraction affected by rate and distribution of (dog), 131, 669

- Hepatic blood flow, bromsulphalem use with guided catheterization in estima tion of (dog) 124, 173
- Hepatic fibrosis fat free diet production of (rabbit) 131 25P
- Hepatic resistance hypotension effect on (rat) 126, 424
- Hepatic vein adrenaline, acety lcholine etc action on (dog), 128 417
- guided catheterization of (dog), 124 173 Hepatic venous tree constriction within (dog) 122, 53P
- Heredity, cone monochromats and (man) 121 567
- Hering-Breuer reflex bronchial tone affecting (cat), 125 344
- Hereotopic bone production of (T) 128
- Heterophoria polaroid lantern slides for class demonstration of 123 53P
- Hexamethonium acetylcholine action on sensor, nerve affected by (cat) 119 124 acetylcholine action on superior cervical ganglion affected by (rabbit) 132 251
  - aretylcholine stimulation of carotid sinus receptors affected by (cat) 130 522
  - bladder contraction on nerve stimulation affected by (cat) 127 57
  - blood pressure in normal and hypertensive state affected by (rabbit), 127, 71
- carotid body response to various stimuli affected by (cat), 118 373
- cerebral blood flow affected by (mammal), 133 14
- ciliary ganglion affected by (cat) 119 459 colon response to pelvic and sympathetic nerve stimulation affected by (rabbit), 128 568
- denerated ganglion reactions to (cat) 126 102
- denervated sympathetic ganglion affected bi (cat) 130 157
- heart lung preparation affected by (dog) 124 491
- histamine and pilocarpine effects on sym pathetic ganglion affected by (cat) 129
- ht pogastrie nerve uterus preparation affected by (rabbit) 132 96
- lateral ventricle injection of (cat) 123 1 ,1
- liver blood flow affected by (rat) 123 576 membrane potential spike discharge and tension of tacma coli affected by (guinea Ph.) 128 208
- placental transfer of (rabbit) 122 93 vagal stunulation action on perfused heart affected by (rabbit) 131 681

- Hexamethonium bromide, placental transfer of (rabbit), 116, 4P
- Hexamethonium iodide renal sodium reabsorption and oxygen consumption affected by (rabbit), 123, 4P
- Hexoestrol, adrenocortical secretion inhi bition by (rat), 130 601
  - corticosterone secretion by adrenal cortex affected by (rat), 128, 7P
- Hexosamine pregnancy effect on foetal membranes (rat), 132, 482
- Hibernation, body fat composition in rela tion to (hamster and rat) 126 235
- High heels electrical activity in leg muscles affected by (man) 132, 465
- High-speed cinematography, reflexes and movements analysed by (man), 130 4P
- High titre cold agglutination (T), 118. 56P
- H ion excretion, respiratory acidosis effect on (man) 122 85
- Himalayan Expeditions, haemoglobin levels on (man), 126 38P
- Hippocampus, action potentials of pyra midal neurones in (rabbit) 129, 608
- Histamine, absorption from subarachnoid space of (dog), 120, 62P
  - adrenaline and tubocurarine release of (man) 120, 146
  - adrenaline liberation of (man) 118, 66P age effect on content in skin of (rat), 124.
  - amino acids release from perfused skin of (cat), 124 27P
  - anaphylactic shock and synthetic releaser of (gumea pig), 116, 31P
  - antigen and 48/80 interaction in causing release of (guinea pig) 118 468
  - antigen antibody reactions in skin and (rat) 129, 205
  - antilustamme release of (man and guinea pig) 119, 47P
  - blood flow of finger exposed to cold affected by (man), 121 48
  - blood platelets containing (various) 124 305
  - botulinum toxin effect on response of gut
  - to (mammal) 127 464
  - calcium and potassium influence on intes tine response to (guinea pig) 36P
  - calcium deficient skeletal muscle activity affected by (frog), 133 110
  - cercbellar electrical activity affected by (rabbit) 129 19P, 132, 401
  - clinical disorders affecting content in skin of (man) 126 286

Histamine, compound 48/80 effect on release of (cat), 121, 517

compound 48/80 liberation from stomach of (cat), 119 239

coronary arteries (perfused) affected by (dog), 122, 492

duodenal acid effect on gastric acid secretion promoted by (dog), 130, 242

egg white injection causing liberation of (mammal), 118, 258

eosinophil count and blood sugar affected by (horse), 130, 707

ganglionic transmission potentiation by (cat), 129, 337

gastric secretion affected by (cat), 121, 445

and blood flow affected by (cat), 121, 433

response to test meal affected by (man), 117, 293

gastro intestinal tract mucosa distribution of (dog) 117, 31 P, 120 352

hand and forearm blood flow affected by (man), 120, 160

hand and forearm blood vessels affected by (man) (T) 118 69 P

hepatic vessels affected by (dog), 128, 429

hepatic vessels in perfused liver affected by (mammal), 132, 516

intracellular distribution of (guinea pig), 131, 208

ionizing radiation effect on tissue (rat), 130, 33 P

kidney extract release from platelets of (mammal), 133 406

lateral ventricle injection of (cat), 123, 153

liberation by 48/80 and regeneration in tissues of (dog and rat), 120, 550

liver removal of (dog and H L L), 120, 419

mast cells containing (mammal) 117 72 P 119, 44 P 120 528

mast cell tumours containing (dog), 125, 47P

membrane potential spike discharge and tension of taenia coli affected by (guinea pig), 128 203

method of estimation of  $121 ext{ } 5P$ 

oesophageal muscularis mucosae response to (mammal), 130, 126

oxygen utilization by perfused liver affected by (dog), 132, 525 plain muscle membrane potentials affected

by (guinea pig) 125, 309 platelet adhesiveness affected by (rabbit), 126, 15P Histamine, platelet release in antigen antibody reaction of (rabbit), 128 9

potassium movement between plain muscle and surrounding fluid affected by (guinea pig), 131, 695

potentiation by histaminase inhibitors of action of (guinea pig), 123, 32

preganglionic impulses potentiation by (cat), 127, 35P

primary amines release of (guinea pig), 119, 48 P

pyridoxin deficiency effect on concentration in body of (rat), 131, 17P

remote injury effect on content in skin of (rat) 119, 410

skin regional differences in content of (mammal), 120, 208

skin release by horse serum of (cat and dog), 118, 124

superior cervical ganglion (perfused) responses affected by (cat), 132, 530

tryptamine and hydroxytryptamine release of (mammal), 122, 02 P

urinary exerction of (rat), 126, 143 vascular reactions in skin to (guinea pig) 118, 236

ventricle strip preparation affected by (Mytilus and Amphidesma), 126 619

Histamine excretion, chloramphenicol effect on (rat), 125 536

Histamine gastric secretion, urogastrone action on (dog), 129, 539

Histamine liberator 48/80, histamine release caused by (cat), 121, 517

skin vascular reactions to (guinea pig)
118, 244

Histamine liberators, histamine exerction in urine affected by (rat), 126-144 ileum affected by (guinea pig), 124-219 lymphagogue action of (cat) 123, 58 P oedema in isolated perfused lungs caused by (rabbit), 124-512

phosphate reaction with (cat), 131, 13P skin regional differences in effect of (mammal) 120, 205

Histamine metabolism, bacterial change in alimentary canal effect on (rat) (T), 123 72P

Histamine releaser, anaphylactic shock parallelism with (guinea pig), 116, 31 P anaphylactic shock comparison with

(guinea pig), 118, 461 quantitative methods for measuring the

actions of (T), 120 38P
Histaminase deciduomata containing

(rat) 117, 37P histamine action potential on by inhibitors of (guinea pig), 123-32 Histaminase, uterus in pregnancy contain ing (rat), 119 288

Hollow organs volume changes measure ment at constant pressure in, 125, 51P

Horner's syndrome, light induced oestrus affected by (ferret) 132, 124

Horse serum protein, sensitization of guinea pigs to, (T) 128 69 P

Horse serum skin release of histamine by (cat and dog), 118 124

Hot environment age affecting responses to (man), 133, 118

natural and artificial acclimatization to (man) 132 559

Housefly acetylcholine content of head of, 134, 251

Humerus, hypervitaminosis A effect on in vitro growth of (chick), 116 329

Humid heat hand and forearm circulation with repeated daily exposures to (man), 128 57P

Humidity sweat production relation to deep skin temperature affected by (man) 127, 288

Hunter's organ, resting and action potentials in (electric eel), 119, 330

Hyaluronic acid synovial fluid and function of (ox), 119, 244

Hyaluronidase cartilage sections affected by 119, 5P

connective tissue permeability affected by (mouse) 117, 2

synovial fluid hyaluronic acid affected by
(ox) 119 253

Hydraulic oscillator arterial system in vestigation by 133 74P

Hydrochloric acid gastric emptying time affected by test meal containing (man), 132 272

Hydrostatic pressure mechanism for effect on biological systems of (cat), 132 38 P

llydroxyindoleacetic acid exerction of (mammal) 127 121

amme injection (rat), 133 6

Historytry ptamine antigen antibody reaction liberation from platelets of (rabbit) 119 43P

north and carotid sinus receptors affected by (cat) 123 277

atropine antagonism to (rabbit and guinea pig) 121 51 P

blood platalets absorption of (man) 129, 24P (dol.) 124 300

containing (various) 124, 305 (man), 130 711

Hydroxytryptamine, release in antigen antibody reaction of (rabbit) 128, 9

blood pressure affected by infusion of (cat) (T), 119, 31P

Botulinum toxin and (Mytilus), 132, 674 brain electrical activity in conscious animal affected by intraventricular in jection of (cat), 132 49P

breakdown products of (mammal) 127, 121

bronchial muscle as test object for (cat), (T) 120, 38 P

bronchial reaction to (guinea pig) 120 65P

circulators effects of (cat), 118, 435 coronary arteries (perfused) affected by (dog), 122, 491

cutaneous pain responses to (man), 120, 341

distribution in C N S of (dog) 126, 596 drugs effect on amount in brain of (mammal), 131, 617

enzymic oxidation of (various), 122  $\,$  404 erythrocytes and (man)  $\,$  132,  $\,$  39 $\,$ P

erythrocyte hypotonic haemolysis affected by (man), 134, 484

fate of exogenous (rat) 133 1

gastric stretch receptor activity affected by (cat) 126 273

gastro intestinal release of (T), 129, 10P gastro intestinal tract containing (dog and rabbit), 119, 355

gastro intestinal tract release of (dog) 126, 248

identification in gastro intestinal tract of (dog and horse) 120 298

intraventricular injection in conscious animal of (cat) 120 12P

kidney extract release from platelets of (mammal) 133 405

lateral ventricle injection of (cat), 123

local anaesthetic drugs antagonism with (mammal), 120 64P

location and possible function of tissue (rat) 134 JIP

h sergic acid dieth lamide antagonism with (rat) 121 15P

method for identification of (*Mytilus* cdulis) 130 22P

nettle sting containing, 130 41P

pain producing action of (man) 117 70P peripheral blood vessels affected by (man) 130 8P

pigment formation by amine oxidase action on (rat and guinea pig) 122 425 release of cellular pigment by (beetroot) 127 34 P

Hydroxytryptamine respiration affected by (dog), 117, 71 P

respiratory stimulant action of (dog) 120 311

separation of substance P, in extracts from (horse), 126, 601

superior cervical ganglion (perfused) responses affected by (cat), 132, 530 tissue histamine and (rat) 132, 40 P

true cholinesterase inhibitor 284C51 potentiation of (rabbit), 125, 37 P

tryptamine receptors and (guinea pig), 119 363

Hydroxytryptamine aerosol, shock in duced by (guinea pig) 128, 435

Hydroxytyramine adrenal medulla con taining (mammal), 117, 67 P 120, 15 Hyoscine TEPP poisoning of respiratory

centre antagonized by (cat) 116, 206

Hyperaemia bradykinin formation in local
(cat) 129 253

Hypercalcaemia cortisone effects on calcium and phosphorus metabolism in (infant) (T), 130 6P

Hypercapnia, oxygen consumption in early stages of (man) 129 400

Hyperglycaemia foetal blood glucose and fructose affected by (sheep) 129 369 radio active glucose transfer from foetus to maternal circulation in (sheep) 129 359

Hyperglycaemic factor embryonic bone growth affected by (chick) 125 157

Hyperphagia hypothalamic lesions causing (cat and monkey) 127 145

Hyperpolarization end plate potential affected by (cat) 132 88

motoneurone excitatory post synaptic potential affected by (cat) 130 376

motoneurone inhibitory post synaptic potential affected by (cat) 130 333 401 repetitive stimulation of C fibres causing (rabbit), 134 707

Hypertension baroceptor activity in (T), 132 19P

blood pressure control in (rabbit) 127 69 carotid sinus stimulation effect on (dog) 126 13P

Hypertonic infusions GFR and glucose reabsorption affected by (dog) 132 213

Hypertonic salt injection chloride and water content of tissues following (cat), 117 174

Hyperventilation apparent oxygen con sumption associated with (man) 129 395

carbon dioxide accretion when stimulating (man), 129 146

Hyperventilation, forearm blood flow affected by (man), 118 537

oesophageal temperature affected by (man) 126, 353

potassium excretion affected by (man) 121, 39

Hypervitaminosis A bone in vitro growth affected by (chick and mouse) 116 320 Hypogastric nerve stimulation uterus

affected by (rabbit), 117, 319
Hypogastric-nerve-uterus preparation

reactions of (rabbit) 132, 92

Hypoglossal nucleus, active leholine
activity in region of (T), 118, 51 P

brain inhibitory factor effect on (cat)

**130** 450

Hypokalaemia, electrocardiogram affected by (man) (T), 119 52P

Hypophyseal portal vessels anterior pituitary necrosis produced by arrest of blood flow in (rat) 133, 4P

Hypophysectomy adrenal cortex mitotic activity affected by (rat), 127, 265

cardiac hypertrophy affected by (rat) 116, 220

heart weight affected by (rat) 116 76 124 49

intestinal secretin content affected by (rat) 118, 191 119, 267

affected by (rabbit), 126 22

by (rabbit) 127, 338

Hypophysis protein bound nodine in anterior and posterior (T) 133, 41 P

Hypothalamus amphetamine action on electrical activity of (cat) 132, 358

continuous hydration effect on 'neuro secretory material in (T) 133 41 P

food intake control by (cat and monkey)
127 143

noradrenaline distribution in (dog) 123

oestrus in winter following lesions m (ferrot) 132 57P

ovulation and adrenaline injections into (rabbit) 128 13P

ovulation effected by adrenaline and acid injection into (rabbit) 132 577

pituitary adreno cortical response control by (cat) 127 153

polydipsin production by osmotic and electrical stimulation of (Film) (T) 129 33 P

thyroid activity affected by electrical stimulation of (T) 132, 39 P

tonic and phasic autonomic reactions affected by lesions in (cat) 131 402

, J

Hypothalamus vasopressor antidiuretic and exylecte activity of (1) 119 11P vesicular structures in (dog) (T), 117 62P vesiculated neurones in (dog) 121 167 water intake control by (sont), 129 11P Hypothalamic lesions renal exerction of electrolytes affected by (T) 125 50P sodum excretion after round denorvation

affected by (rat) 130 9P Hypotension liver blood flow response to (rat) 126 115

Hypothermia, acid base studies during (dog) 126 20P

baroceptor and chemocoptor reflexes affected by 127 59 P

blood reaction during (dog) 125, 20 P carbon dioxide in control of respiration during (dog), 127 380

liver affected by occlusion of venue cayne and (doL) 128, 15 P

merowaye diathermy reanimation after (rat) 128, 511

oesophageal rectal and para aortic tom peratures during (man) 130 10P

reammation by a simple method from ice cold (mouse and rat) 132 406 from (int) 128, 116

success affected by duration of (rat) 128 545

resuscitation from (mammal) (  $\Gamma$ ) 128-1 Pround after arrest of circulation and respiration in (rat), 123  $\pm 00P$ 

ventricular depolarization and repolariza tion caused by two different methods of producing (dog) 130 39P

Hypotonic linemolysis apparatus for study of 133, 27 P

Henri, autonomie drugs after ting adronalino action on (Lumen pig) 118, 171 coaxial electrodes stimulation of (gumon

Pik) 127 10P electropotential changes of (deg.) 131,

longitudinal muscle removed as a broad

sheet (rabbit) 125 53P mechanism of longitudinal muscle con

traction on pressure rise in (guinea pig), 129 18*P* 

pressure effect on contraction of longi tudinal muscle of (gumea pig) 128, 8Pproperties of longitudinal muscle of (gumen pig) 133 6P

SRS A effect on (cnvv) 128 1P

stimulation by convint electrodes of (gumen pig.) (7) 129 7P

temps rature effect on responses of isolated (Lumea pig.) 131, 7P

Iminuzoles, histamine action affected by (gumea pig), 123-30

Immunity histomine and 18/80 in skin vascular reactions showing (guinoa pig), 118, 216

Impedance, calculation of changes in nerve (Lolyjo), 117, 529

Inactivation response Purkinjo colls showing (cnt) 133 540

Incisor, mechanoreceptors in (rabbit), 126, 175

synchronous discharge of mechanoreceptors in (rabbit), 120, 11P

Incus, stroboscopic illumination of move ments of (man), 116 177

Indolalkylamines, late in hedy of (main mal) 127, 118

Indolylacetic acid, metabolism of (rat) 127, 125

release of cellular pigment by (beetroot), 127 317

Infant diureties effect on (int and dog), 118 386

round response to acidosis in (dog) (T), 120 227

Inferior cardiac nerve afforent fibres in (cat), 130 15P

Inferior mescnteric ganglion, conduction through (rabbit) 118, 113

origin of slow C fibres having synapses in (rabbit), 124, 145

post Langhome axotomy effect on (ent) 127, 003

Inferior splanchnic nerve, conduction to ascending mesontoria nervo (rabbit) 118 115

Inferior vena cava, sphineter above dia phragm in (soal) 123, 39P

Inflammatory exidates, pain producing substance in 124, 18P

Infra-red analyser, Douglas bags tested with, 116, 22P

Infra-red radiation, pain threshold for (man) 118, 1

Infra-red receptors facial pit organ con taming (snaka), 134, 17

Infundibular process, vascular pattern with ago change in (man), 118, 21P

Infused fiving cut (1), 122, 1719 Infusion roller pump for long continued continuous, 128, 20 P

Infusion apparatus, 117, 18P

Inhalation antigonic sonsitization by (gumen pig), 127, 564

Inh dation anaesthesia, apparatus and method for (rabbit) (T), 121, 30PInherited

neurological disorders, (mouse) ( $\Gamma$ ), 118, 6P

Hydroxytryptamine respiration affected by (dog), 117, 71 P

respiratory stimulant action of (dog) 120 311

separation of substance P, in extracts from (horse), 126 601

superior cervical ganglion (perfused) responses affected by (cat) 132 530

tissue histamine and (rat) 132, 40P true cholinesterase inhibitor 284C' potentiation of (rabbit) 125 37P

tryptamine receptors and (guinea pig), 119 363

Hydroxytryptamine aerosol, shock in duced by (guinea pig) 128, 435

Hydroxytyramine adrenal medulla con taming (mammal) 117 67P, 120 15

Hyoscine TEPP poisoning of respiratory centre antagonized by (cat) 116 206

Hyperaemia brady kının formation in local (cat) 129 253

Hypercalcaemia cortisone effects on calcium and phosphorus metabolism in (infant) (T) 130 6P

Hypercapnia, oxygen consumption in early stages of (man) 129 400

Hyperglycaemia foetal blood glucose and fructose affected by (sheep) 129 369 radio active glucose transfer from foetus to maternal circulation in (sheep) 129, 359

Hyperglycaemic factor embryonic bone growth affected by (chick) 125 157

Hyperphagia hypothalamic lesion causing (cat and monkey) 127, 145

Hyperpolarization end plate potential affected by (cat) 132 88

motoneurone excitatory post synaptic potential affected by (cat) 130 376

motoneurone inhibitory post synaptic potential affected by (cat) 130 333 401 repetitive stimulation of C fibres causing

(rabbit) 134 707

Hypertension baroceptor activity in (T)
132 19 P

blood pressure control in (rabbit) 127 69 carotid sinus stimulation effect on (dog) 126 13 P

Hypertonic infusions GFR and glucoso reabsorption affected by (dog) 132, 213

Hypertonic salt injection chloride and water content of tissues following (cat), 117, 174

Hyperventilation apparent over con sumption associated with (man) 129 395

carbon dioxide accretion when stimulating (man), 129-146

Hyperventilation, forearm blood flow affected by (man), 118 537

oesophageal temperature affected by (man) 126, 353

potassium excretion affected by (man), 121, 39

Hypervitaminosis A bone in vitro growth affected by (chick and mouse), 116 320 Hypogastric nerve stimulation uterus

affected by (rabbit), 117, 319

Hypogastric-nerve-uterus preparation reactions of (rabbit), 132 92

Hypoglossal nucleus acetylcholme activity in region of (T) 118, 51P

brain inhibitory factor effect on (cat)
130 450

Hypokalaemia, electrocardiogram affected by (man) (T) 119, 52P

Hypophyseal portal vessels antenor pituitary necrosis produced by arrest of blood flow in (rat) 133 4P

Hypophysectomy adrenal cortex mitotic activity affected by (rat) 127, 265 cardiac hypertrophy affected by (rat)

116 220 heart weight affected by (rat) 116 76, 124 49

intestinal secretin content affected by

(rat), 118, 191 119, 267

131 odine output of thyroid gland affected by (rabbit) 126 22

131 odine uptake by thyroid gland affected by (rabbit) 127, 338

Hypophysis protein bound nodine in anterior and posterior (T) 133 41P

Hypothalamus amphetamine action on electrical activity of (cat) 132 358

continuous hydration effect on neuro secretory material in (T) 133 41 P

food intake control by (cat and monkey)
127 143

noradrenaline distribution in (dog) 123 459

oestrus in winter following lesions in (ferret) 132 57P

ovulation and adrenaline injections into (rabbit) 128 13P

ovulation effected by adrenaline and acid injection into (rabbit) 132, 577

pituitary adreno cortical response control by (cat) 127 153

polydipsia production by osmotic and electrical stimulation of (Film) (T) 129 33 P

thyroid activity affected by electrical stimulation of (T) 132 39P

tonic and phasic autonomic reactions affected by lesions in (cat) 131 402

- Intestinal absorption apparatus for in ritro study of 121, 2P
  - apparatus for study in vivo of (rat) 128, 67P
  - phlorhizm action on (rat), 134, 676
  - stereochemical specific absorption of alanine in (cat), 116, 20 P
- Intestinal circular muscle enteric plexuses removal effect on reaction to drugs of (T), 116 49 P
- Intestinal epithelium, ammopterm action on (mouse) 123 607
- Intestinal metabolism, measurement of absorption and (rat and hamster), 121, 45P
- Intestinal mucosa, acylase occurrence in (T) 128 84P
  - aminoacids metabolism in vitro in (rat and cat) 130 285
  - eosinophilic cells in submucosa and (cat and frog), 121, 17P
  - lactic acid production in vitro by (rat), 129, 7
- Intestinal paralysis, cell potassium loss as cause of (dog) 118 149
- Intestinal phosphatase, phlorhizm action on (rat), 134 676
- Intestinal wall, water transport through (rat), 126, 42 P
- Intestine amino acid enantiomorphs absorption in (cat) 126, 96
- ammo acids preferential transference by sac of everted (hamster) 127, 414
- botulinum toxin in classification of drugs acting on (mammal) 127 449
- calcium and potassium influence on histamine action on (guinea pig), 116 36 P extrinsic denervation of (rabbit) 127 14 P
- histamine profile of mucosa of different parts of (dog) 120 359
- hypophysectomy effect on secretin content of (rat) 118 191
- kidney absorption capacity compared with that of (rat) 121 15 P
- nerve supply to (cat) 116 228
- Pepsin stimulating action of extracts of (cat), 121 20P
- radioactive glucose absorption from (dog), 134 7P
- temperature effect on water transfer by in vitro preparation of (rat) 132 9P transamination by (rat) 120 55P
- water transport inhibition in in vitro pre paration of 128 81 P
- Intra-abdominal pressure pulmonary ventilation effect on (man), 122, 282 sphincter an externus tone affected by (man) 122 002

- Intracardiac pressure measurement by modified bronchescope of (deg), 132, 24P
- Intracarotid hypertonic injections, urmo flow and uterme mothety affected by (dog), 126, 332
- Intracellular electrodes, technique for introduction of (rat), 128, 26P
- Intracellular fluid, extracellular concentration compared with (guinea pig and rat) 120, 1
  - work in hot environment effect on volume of (man), 127, 34
- Intracellular pH tungsten microelectrode measurement of (crab) 120, 31 P
- Intracellular recording extracellular re cording at my oneural junction compari son with (frog) 132, 630
- Intradermal injection mechanics of (guinea pig) 118, 229
- Intra-gastric pressure respiration effect on (man), 127 424
- Intraocular pressure, carbonic anhydraso inhibitor action on (rabbit), 128, 77P
  - electroretinogram affected by (rabbit), 133, 267
  - methods of measuring (T), 116, 52P seventh cranial nerve stimulation effect on (cat) 134, 394
- Intraocular spike potentials, optic lobe showing (locust), 133 74
- Intrapulmonary arterio-venous shunt, artificial ductus arteriosus and (dog), 130, 176
- Intrapulmonary pressures, heart rate influenced by (man), 134, 5P
- Intrarenal blood distribution utermo influence on (T), 119 25P
- Intrarenal pressure factors affecting (dog) 123 131
  - interstitial pressure in annesthetized dog and (T), 117, 32P
- Intrasinusal pressure carotid occlusion effect on (mammal), 117 56
- Intrathoracic pressure, coughing effect on (man), 122 351
  - variations in different parts of thorax of (dog), 126, 309
- Intravenous infusions heart rate affected by (dog) 128, 310
  - vasomotor response in hand and heat changes in body with hot or cold saline (T), 123 39P
- Intraventricular injection permanent cannula for (cat), 120 3P
- Intrinsic factor pylonic gastric pouch sup plying (pig), 121, 3P

Inhibition, investigation of primary or direct (cat), 122, 474

potentials in motoneurone affected by (cat), 117, 450

retina showing (frog), 119, 69

(crustacea) 118, 47P

temporal course evoked by single and repetitive volleys of direct (T), 117, 64P

Inhibitory nerve impulses, end plate potential affected by (crab) 121, 375 muscle fibre surface membrane affected by

Inhibitory post-synaptic potential, factors affecting motoneurone (cat), 130 326

time course of motoneurone (cat), 130 397

Injection syringe adjustable constant volume 124, 55 P

Injury discharge cortical neuronesshowing (cat), 121, 124

Injury potential stretching of single nerve fibre effect on (frog), 124, 90

Inositol, cerebrospinal fluid and aqueous humour relation to plasma (sheep) 131, 11 P

cerebrospinal fluid containing (mammal), 119 18P, (man and cat) 129, 272

erythrocyte penetration by (man), 125, 172

foetal blood containing (mammal) 117, 70P

foetal fluids containing (mammal), 126

Insecticides acetylesterases affected by organophosphate (insects) 127 20P

Insensible perspiration, factors control ling (man) 132 227

Inspiration abdominal muscles electro my ogram during (man), 117, 225

intra abdominal pressure affected by (man) 129 450

Insulin adrenergic amines of blood affected by (man) 122 42 P

blood aqueous barrier to glucose affected by (rabbit), 116 414

body temperature affected by magnesium and (rat) 119 49P

duodenal acid effect on gastric acid secretion promoted by (dog) 130 245 embryonic limb bone growth in vitro affected by (chick) 125 148

eosinophil count and blood sugar affected by (horse), 130 705

galactose penetration into perfused heart affected by (rat), 124 20P

glucose and acetate metabolism in dia phragm affected by (rat), 123, 543 Insulin, and phosphate exerction affected by (cat), 124, 623

utilization of isolated heart affected by (rat), 123, 260

heart (perfused) affected by (rat), 118, 27P

oestrone and progesterone interaction on isolated uterus with (rat), 128 113

perfused heart penetration by sugars affected by (rat), 131, 526

sympathin content of hypothalamus affected by (cat), 123 463

thyroid gland uptake of <sup>131</sup>I affected by (rabbit), 131, 91

Insulin hypoglycaemia adrenalectom effect on (man), 133, 59 P

adrenaline in blood during (dog and man)
125, 32P

adrenal secretion relation to symptoms of (man). 128 72P

gastric secretions in Heidenhain pouch affected by (dog), 120, 388

pyloric antrectomy effect on secretory response of Heidenham pouch to (dog), 123 175

Integrated electrical activity, skeletal muscle force and velocity relation to (man) 123 214

Intercostal muscles, electromy ography in respiration of (man) 129 12

Interfacial tension apparatus for determination of 121 10P

Interference microscope, applications of, 117 52 P

high power 125 11P

Internal calorimetry automatic recorder for, 124, 49 P

blood flow measurement in mammary gland by (mammal), 121 390

brain blood flow measurement by (main

mal), 133 10 standardization of recorders used in 120

2P thermal conductivity and blood flow

determination by (rat and rabbit) 118

Internal capsule motor cortex stimulation comparison with stunulation of (man) 123 49 P

Internal jugular vein blood antiduretic titre of plasma from (man) 117 28P

Internal mammary artery haemorrhage effect on blood flow in (dog) 121,

Interneurones intracellular recording in spinal cord from (cat) 130 646

Interstitial fluid circulation model 127

Intestinal absorption apparatus for in ritro study of 121, 2P

apparatus for studi in rivo of (rat), 128, 67P

phlorhizin action on (rat), 134 676

stereochemical specific absorption of alanine in (cat), 116 20 P

Intestinal circular muscle enteric plexuses removal effect on reaction to drugs of (T), 116 49 P

Intestinal epithelium, aminopterin action on (mouse) 123, 607

Intestinal metabolism measurement of absorption and (rat and hamster) 121 45P

Intestinal mucosa, acrelase occurrence in (T) 128 84 P

aminoacids metabolism in vitro in (rat and cat) 130 285

eosmophilic cells in submucosa and (cat and frog) 121 17 P

lactic acid production in vitro by (rat)

Intestinal paralysis cell potassium loss as cause of (dog) 118 149

Intestinal phosphatase phlorhizin action on (rat) 134 676

Intestinal wall water transport through (rat) 126 42P

Intestine amino acid enantiomorphs ab sorption in (cat) 126 96

ammo acids preferential transference by sac of everted (hamster) 127 414

botulinum toxin in classification of drugs acting on (mammal) 127, 449

calcium and potassium influence on hist amine action on (guinea pig) 116 36 P extrinsic denervation of (rabbit) 127 14 P histamine profile of mucosa of different parts of (dog), 120 359

hypophysectomy effect on secretin con tent of (rat) 118 191

kidnes absorption capacity compared with that of (rat) 121 15P

nerve supply to (cat) 116 228

pepsin stumulating action of extracts of (cat) 121 20P

radioactive glucose absorption from (dog) 134 7P

temperature effect on water transfer by in rate preparation of (rat) 132 9P transamination by (rat) 120 55P

water transport inhibition in in vitro pre paration of 128 SIP

Intra-abdominal pressure pulmonary ventilation effect on (man) 122 282 sphincter ani externus tone affected by (man) 122 602

Intracardiac pressure measurement by modified bronchoscope of (dog) 132, 24 P

Intracarotid hypertonic injections urms flow and uterms motility affected by (dog), 126, 332

Intracellular electrodes technique for introduction of (rat) 128 26 P

Intracellular fluid extracellular concentration compared with (guinea pig and rat) 120, 1

work in hot environment effect on volume of (man), 127, 34

Intracellular pH tungsten microelectrode measurement of (crab) 120, 31 P

Intracellular recording extracellular re cording at my oneural junction comparison with (frog), 132 630

Intradermal injection mechanics of (guinea pig) 118, 229

Intra-gastric pressure respiration effect on (man), 127 424

Intraocular pressure carbonic anhydrace inhibitor action on (rabbit) 128
77P

electroretinogram affected by (rabbit) 133 267

methods of measuring (T), 116, 52P

seventh cranial nerve stimulation effect on (cat) 134 394

Intraocular spike potentials optic lobe showing (locust) 133 74

Intrapulmonary arterio-venous shunt artificial ductus arteriosus and (dog) 130 176

Intrapulmonary pressures heart rate influenced by (man) 134 5P

Intrarenal blood distribution uterine influence on (T), 119 25P

Intrarenal pressure factors affecting (dog) 123 131

and (T) 117, 32P

Intrasinusal pressure carotid occlusion effect on (mammal), 117, 56

Intrathoracic pressure coughing effect on (man) 122, 351

variations in different parts of thorax of (dog) 126 309

Intravenous infusions heart rate affected by (dog) 128 310

vasomotor response in hand and heat changes in body with hot or cold saline (T) 123 39 P

Intraventricular injection, permanent cannuls for (cat), 120 3P

Intrinsic factor pylone gastric pouch sup plying (pig) 121 3P

- Intrinsic factor, studies on separation of Castle's (T) 121, 13P
- Inulin, kidney cortex slices permeability to (guinea pig), 131 549
  - molecular inhomogeneity affecting clearance studies of 131, 586
  - perfused heart penetration by (rat), 131 531
  - rate of removal in isolated heart of (rat), 123 268
- Inulin clearance creatinine clearance comparison in the young with (man) 116, 50 P
- Inulin space stimulation of muscle effect on (rat) 127 525
- Invertebrate muscles, early tension changes during contraction of, 133, 8P inhibitory nerve impulses effect on surface

membrane of (crustacea) 118, 47P pH of (crab), 126 169

- Invertebrate nerve intracellular calcium content of (squid and crab) 134 399
- Iodide aqueous humour cerebrospinal fluid and plasma (rabbit) 129, 113
  - foetal uptake after maternal injection of (rabbit), 133 187
  - intestinal absorption of (rat) 131 458 placental transfer of (mammal), 132, 365
  - stomach concentration of (mammal) 133
- blood and urine of (rabbit) 126 5
  - metamorphosis studies by (Xenopus), 130 11P
- thyroid gland uptake of (rabbit) 127, 328 Iodoacetate erythrocyte sodium transfer affected by (tortoise) 132 430
- Ionic conductances calculation of norte (Loligo) 117 506
- Ion movements apparatus for study of (mammal) 119 5P
- Ionization anemometer modified form of (T) 127 45P
- Ionizing radiation tissue histamine affected by (rat) 130 33 P
- Iridocytes light absorption by (frog) 132, 262
- Irin smooth muscle contracting substance in iris (rabbit) 129 65P
- Iris carbonic anhy drase content of (rabbit)
  130 665
  - ciliary gaughion removal effect on cholin esterase content of (cat) 118 32P hight sensitivity of (frog.) 132 257
  - membrane potentials in plain muscle of (rabbit) 125 292
  - pigmentation effect on enzyme systems in (rabbit) 119 105

- Iris, trigeminomimetic action of extracts of (rabbit), 132, 48P
- Iron adrenal cortex affected by preparations of (mainmal), 119, 1P
  - anticoagulant action of various preparations of (mammal) 118 7P
  - capillaries damaged by proparations of 118 33P
  - exerction in siderosis of (mouse), 119, 40P liver cell penetration by different preparations of (rabbit), 117, 66P
  - plasma values after injection of preparations of (rabbit), 118, 63P
  - toxicity mechanisms of different preparations of 119, 12P
  - urinary excretion and diffusibility of different preparations of (rabbit) 118, 64 P
- Ischaemia extensor plantar response after leg (man) 118, 42P
  - finger tremor affected by (man), 123 23P sweat composition affected by (man) 116 405
- Ischaemic fatigue nature of (man) 123 562
- Isolated carotid sinus, pressure receptor activity in perfused (T), 124, 9P
- Isolated cerebral cortex after bursts production in unanaesthetized (cat) 125, 427
- neurones function and structure in (cat)
  118 412
- Isolated ganglion technique of recording from mammalian (T) 117 2P
- Isolated heart corticosteroids action on (guinea pig) 134 10P
  - ion effects on Class demonstration (Xenopus laevis) (T) 126 11 P
- perfusion of (rat) 134 3P
  Isolated innervated perfused lung pul
- monary tascular responses in (dog), 132 42 P
- Isolated lungs pulmonary perfusion of (cat) (T) 116 46P
- Isolated perfused car preparation of (rabbit) 131 176
- Isolated perfused heart evaporation effect on temperature control of 133 20 P
- Isolated sympathetic ganglia action potentials of (rabbit) 117 181
- Isolated ventricle reactions of (1) 123
- Isometric contraction strain gauge dyna mometer for measurement of strength of 127 48P
- stretch and shortening effects on muscle (various) 117-77

Isometric lever for small forces, 122, 8PIsometric tension, integrated action potentials of skeletal muscle relation to (man) 117, 492

Isotonic contraction hypertonic solution effect on load velocity ratio in (T), 132, 33P

Jaw muscles short latency responses in mesencephalon to stretch of (goat), 120 478

Jejunum duodenal pacemaking area effect on (dog) 132 110

electropotential changes of (dog), 131 148 fat lipolysis after fatty meal in contents of (dog), 134 515

lipid composition in fasting of secretion of (dog) 128 73P

plexus free circular muscle behaviour in (cat), 119 376

Turradiation effect on histamine content of (rat) 133, 509

Joint blood vessels nervous control of (dog) 133 467

responses of (dog), 132 63P

Joint, passive movement sensation in (man) 126 448

Jugular phiebogram nucrophone mea surement of (dog) 121, 25P

Keratinization vitamin A effect in tissue culture on (chick) 119 470

Ketosteroids, tropical conditions effect on urmary exerction of (T) 116 10P

Kidney acidosis effect in young on per formance of (dog) 124 358

4DH mactivation by (rat) 124 468

ammonia formation by slices of (mam mal) 124 1

antidiuretic activity of vasopressin in activation by (rat) 126 116 autolisis at 0° C of ground (rat) 130

chloride penetration into slices of cortex of (guinea pig) 131 542

circulatory autoregulation in perfused (dog) 123 143

emotional antidiuresis in autotransplanted (dog) 128 122

fluorine intoxication effect on (rat) 116

glucose excretion by (cat) 122 54P

glutamine effect on ammonia formation by slices of (mammal) 124 8

hexamethonium iodide effect on sodium reabsorption and oxygen uptake by (rabbit) 123 4P

histamine excretion by (rat) 126 143

Kidney, hypertonic infusions effect on functions of dog), 132 213

intestine absorption capacity compared with that of (rat) 121 15P

intrarenal pressure affected by decapsu lation of (dog) 123, 137

mulin space in slices of (rat and guinea pig) 130 439

unIodine exerction by (rabbit) 126 15 methicining p to r conversion by slices of (rat), 119, 7P

molecular concentration of slices of cortex of (rat and guinea pig) 130 438

monoamine oxidase present in (cat) 126 441

phosphate excretion at high plasma P concentrations by (man) 131, 555

phosphorus transfer rate into and out of (rat) 132 10

plasma choline concentration control by (dog) 120, 54

pregnancy toyaemia effect on function of (sheep) 131, 383

respiratory acidosis effect on function of (man) 122 81

serotonin release from platelets by extract of (mammal) 133 405

thermal conductivity and blood flow relationship in perfused (sheep and rabbit) 118 67

urea secretion by (rat) 120 11P

vasopressin mactivation by homogenate of (rat) 132 205

Kidney slices denertation effect on water and cation transport in (rabbit) 133,287 intracellular concentration changes in Runger fluid of (T) 125 66P

sodium and chloride ions effect on swelling induced by mercurial diuretic on (rat) 134 216

Knee-joint apparatus for analysis of stumulus response relationship of proprioceptors in (cat) (T) 121, 31P

blood flow to (dog) 132 379

histological structure and physiological response of receptors in (cat), 124 476 innervation of medial ligament of (T) 121 56P

nervous control of blood vessels of (dog) 133, 467

nervous impulses from proprioceptors in (cat) 119 8P

proprioceptive discharges from stretch receptors in (cat) 122 38

sense end organs responsible for proprio ceptive discharges from (cat) 121, 32P sensory innervation of medial ligament of

(mammal) 123 241

- Korotkoff sounds (T) 116, 10P Krogh spirometer Perspex model for students use (T), 125, 14P
- L-amino-acids, digestive gland oxidation of (Mytilus edulis), 129, 11P
- Labyrinth, galvanic polarization effect on impulse discharge from (ray), 127, 104 responses from semicircular canal in iso lated (ray), 117, 329
- Lactation liver collagen affected by (rat), 134, 135
  - mammary gland collagen content affected by (rat) 132, 476
  - mammary gland skin temperature during (man) 116, 29 P
  - menstrual cycle effect on (man) 118, 29 P oxytocic content of post pituitary affected by (mammal), 121, 208
  - thyroid activity affected by (rabbit), 131, 73
  - vasopressor/oxytocic ratio of post pitui tary affected by (dog), 120 142
- Lactic acid, arm and body sweat containing (man), 116 398
  - cation transport in erythrocytes affected by (chicken) 125, 267
  - cornea production of (rabbit) 117, 463, 126 398
  - diaphragm production from glucose and acetate of (rat) 123 546
  - glucose absorption by small intestine producing (rat and hamster) 123 122
  - intestinal mucosa in vitro production of (rat), 129 7
- Lampetra, heart innervation in 131 257
  Lamprey haemoglobin, oxygen and
  carbon monoxide reactions with, 128
  70P
- Lamprey heart innervation in 131 257
  Langendorff heart perfusion tempera
  ture control in, 133 4P
- Laparotomy thyroid gland uptake of <sup>13</sup>I affected by (rabbit) 131 92
- Large intestine fat excretion in (T) 128 63P
- Laryngeal joint proprioceptors properties of (T) 126 24 P
- Laryngeal mucosa innervation of (frog) 117 27P
- Laryngeal muscles activity in respiration of (rat) 130 475
  - respirators function of (cat) 129, 134
- Laryngeal nerve nortic baroceptor im pulses in (rat) 125, 352
- Larynx, closure of (man), 118 39P epiglottal joint proprioceptors in isolated (rat) 126, 510

- Larynx, intrinsic musculature of (cat) (T) 123 13 P
  - respiratory displacement of (rat), 130, 474 respiratory movements of (T) 128 13P
- Latent period colon response to pelvic and sympathetic nerve stimulation showing (rabbit) 128, 565
- Lateral geniculate body light flashes effects on single unit activity in (cnt), 133, 46 P
- Lateral geniculate nucleus refractory period of sensory synapses in (cat), 134 538
- Lateral line, microphone activity of (ruff), 116 137
- Lateral ventricle, drugs injected into (cat), 123, 148
  - method of injecting drugs into (cat) (Film) (T), 122, 10P
- Lateralis organs, DC electrical stimula tion of (Xenopus), 134, 408
- thermal and electrical stimulation effect on (Xenopus laevis) (T) 125, 31 P
- Law of the heart, mechanical model obeying, 127 362
- Lead, post pituitary ADH content affected by (rat) 119, 16P
- Left auricular pressure, pulmonary arternal pressure affected by (cat), 123, 44 P
  - pulmonary (asomotor responses to changes in (cat P L), 131, 12P, (cat), 133 275
- Left ventricle, arterial pressure relation to weight of (rat), 124, 57
- Leg transmural pressure effect on reactions of blood vessels in (man), 134 666
- Leg muscles ergometry and plethysmo graphy for investigation of circulation in (T) 118 50P
- Lens aqueous humour nutrition of (rabbit),
  124 42P
  - carbonic anhydrase content of (rabbit)
    130 665
- Leucine, synthesis of l and d (rat) 125 65P
- Leucocyte heparin anti stress action on phagoestic activity of (mail) 126, 51 P histamine content of (various) 124 305
- Leucocyte count, high temperature and exercise effect on (man) 124 66P
- Leuconostoc citrovorum factor ammo pterm action affected by (chick) 123 621
- Leukotavine skin vascular reactions to (guinea pig) 118 248
- Ligament proprioceptive endings in knee joint medial (maininal) 123 241

- Light, colour of very long wavelength (man) 130, 35
  - pituitary stalk section effect on oestrus induced by (ferret) 131 102
  - retinal extracts affected by (Xenopus)
    125 29
- Light-adapted eye, spectral sensitivity of (cat) 123 409 Light-induced oestrus, sympathectomy
- effect on (ferret) 132 124 Limb plethysmography, equipment for
- (man) (T) 118 56P
- Limb volume, measurement by strain gauge of changes in (man), 121 1
- Lipaemia heparin action in clearing of (dog) 123 303
  - heparin effect on lipoprotein migration in (rabbit) 127 225
- Lipaemia clearing reaction free fatty acids and 133 52 P
- Lipase histochemical test for 119 24 P Lipid jejunal lipolysis after fatty meal of (dog) 134, 515
  - jejunum secretion in fasting containing (dog) 128, 73 P
- Lipoid-soluble substances perfused nerve reaction to (frog), 123 345
- Lipoprotein, tissue extracts and clearing factor effect on electrophoretic migra tion of serum (mammal) 134 102
- Lipoprotein migration heparm and its clearing factor effect on (rabbit) 127 225
- Liver adrenaline acetylcholine etc action on blood vessels of (dog) 128 413

adrenaline and noradrenaline mactivation by (man), 118 13P

- adrenaline, noradrenaline, acetylcholine and histamine action on perfused (mammal) 132 509
- amine oxidase content of (various) 118,
- antidiuretic activity of vasopressin in activation by (rat) 126 116
- autonomic relays within (dog) 123 73P biliari excretion by isolated perfused (dog), 132 6P
- bromsulphthalein abstraction by perfused (dog) 129 77P
- collagen in regenerating (rat) 117 257 collagen growth after partial removal of (rat) 120, 6P
- composition after partial removal of (rat), 117 269
- diet effect on glycogen formation in (rat), 123 516
- D glutamic acid oxidase in (cephalopods), 128 7P

- Liver, glutamic dehydrogenase and glutamic aspartic transaminase in regenerating (rat), 125, 251
  - histamine removal by (dog and H L L) 120 419
  - hypothermia and occlusion of venue cavae effect on (dog) 128, 45P
  - hypothermia and venue cavae occlusion effect on structure of (dog) (T) 130, 36 P
  - indirect calorimetry in determination of thermal conductivity of (rat and rabbit) 118 62
  - iron entry from different preparations into cells of (rabbit) 117, 66 P
  - mitoses in regenerating (rat), 116, 373
  - oxygen utilization by perfused (dog), 132, 522
  - perfusion fluid composition effect on potassium water and gly cogen in (rat), 124 515
  - perfusion technique for (dog) 122 9P phosphorus transfer rate into and out of (rat) 132, 10
  - plasma choline concentration control by (dog) 120 55
  - rate and distribution of blood flow effect on bromsulphalem extraction in perfused (dog) 131, 669
  - resistance to portal flow measurement in (rat) 120 1P
  - siderous and histological changes in (mammal) 118 56P
  - vasopressin inactivation by homogenate of (rat) 132 202
  - Liver amine oxidase throad hormone effect on (rat and rabbit), 116, 46P
  - Liver amino-acids, adrenalectomy effect on regenerating (rat), 124 443
  - Liver blood flow adrenaline and nor adrenaline action on (rat and rabbit) 120 73
    - adrenaline effect on (rat and rabbit), 116 25P
    - body cooling effect on (rat), 133, 341 factors controlling (rat) 123 574
    - haemorrhage and hypotension effect on (rat) 126 415
    - hypotension effect on (rat), 120 57P nervous regulation of (rat and rabbit), 117, 74P
    - portal vein and hepatic artery contributions to (rat and rabbit) 118 16P
  - Liver blood flow and temperature, factors affecting (rat) 116, 195
  - Liver collagen body weight relation to
    (rat) 125 447
    - pregnancy and lactation effect on (rat) 134, 135

Liver fat, choline deficient diet effect on (rat) 120, 441

Liver glycogen partial hepatectomy effect on (rat), 117 274

perfusion fluid composition effect on (rat) 124, 522

Liver ischaemia hepatic blood flow and bromsulphalein clearance in (dog), 124

Liver potassium perfusion fluid composi tion effect on (rat), 124 518

Liver regeneration, collagen in (rat) 123. 482

Liver slice glycogen synthesis after dif ferent diets by (rat) 123, 523

Load finger tremor frequency affected by (man), 134 606

Lobeline sensory nerve pathways affected by (cat) 119 123

Local anaesthetics, new method for testing (man) (T), 124, 10P

Purkinge fibre electrical properties affected by (calf and sheep), 129 573

Locust flight of (Film) (T) 129, 40P optic lobe electrical responses in 133,

visual perception of movement in 125, 566

visual responses in, 121 10P

Low frequency stimuli, high frequency free running time base synchronized with (T) 133 1P

Low pressure electrical condenser mano meter and myograph for recording of (T) 118, 5P

Low-pressure chamber 124 54P

Lumbar sympathetic chain hand blood flow affected by stimulation of (man) 127 134

Lung, air flow rate and direction in relation to viscous hindrance of (rabbit) 119,

anaphylactic shock releasing unidentified substance from (guinea pig) 120 16P anoxia effect on arterial pressure in (cat) 125 373

calculation of respiratory surface of 121,

discontinuity in the pressure volume curve of (rabbit) 124 35P

histamine releasers and anaphy laxis effect on intracellular particles of (guinea pig) 126 44P

hyperventilation effect on oxygen content of (man) 129 396

method of measuring compliance of iso lated (man) (T), 130 34P new born changes in (sheep) 121 141

Lung, oedema produced by substances in isolated perfused (rabbit) 124 502

ongen consumption in foetus of (lamb) 126 569

pressure volume curve of (rabbit) 125, 38P

diagrams determination in 119, 2P diagram of in vivo (rabbit), 123 44P

pulmonary vasomotor responses to anoxia in isolated perfused (cat) 117 303

respiratory reflexes excited by inflation of (cat), 123, 105

trophoblastic material during pregnancy in (man), 118, 40P

uneven ventilation at rest of normal (man), 130, 21 P

ventilation flow resistance and com pliance of (rat), 127, 157

ventilation hindrance components in (cat) 131, 393

work/cycle and frequency relation in (rat), 125 39P

Lung blood volume, left auricular pressure effect on (cat P L), 131 12P

Lung distensibility, foetal age effect on (sheep), 130, 204

Lung distension, pulmonary vascular resistance in new born affected by (sheep) 121, 147

Lung resection, lung volume and mixing efficiency before and after (T), 119,

Lymph coagulation in (dog), 122 33

Lymph flow carotid sinus reflex affecting (cat), 117 10P

Lymphagogue action, histamine liberation and (cat) 123 58P

Lymphatics spontaneous rhythmic con tractility in (man) 133 3P

Lymphatic system lymphocyte output from (rabbit), 132 384

Lymphocyte blood life span of (rat and rabbit) 132 41P

cortisone action in vitro on (rat) 119

daily output of (rabbit) 132 385

Lysergic acid diethylamide brain electrical activity in conscious animal affected by intraventricular injection of (cnt) 132 49P

central effects on vasomotor responses of (cat) 129 61P

effects of (man) 121 50P

5 hydroxytryptamine antagonized (rat) 121 15P

Lysine estimation by specific decarboxy lase method and paper chromato graphy (T) 121 41P

- Macula light reflexion from (man) 116
- Macular pigmentation absorption spec trum in living eve of (T) 116 10P
- Macular pigment Haidinger effect and (man) 124 548
- Magnesium acetylcholme release from ganglion affected by (cat) 124 234
  - setive transport in reast of (T) 125 66P

    ATP and 'Marsh' factor action on muscle
  - fibres affected by (rabbit) 121, 236 body temperature affected by insulin and (rat) 119 49 P
  - cerebral cortex sections metabolic activity affected by (gumea pig) 117 477
  - electrotonus at motor nerve ending
  - affected by (frog) 124 592 end plate potential quantum and (frog)
  - metabolic rate affected by deficiency of (calf) 121 48 P
  - microinjection into giant axon of (squid)
  - miniature end plate potentials affected by (cat) 132 68
  - motor nerve ending activity affected by (frog) 124, 553
  - muscle stretch effect on end plate po tential affected by (frog) 133, 616
  - nature of neuromuscular block produced by (frog) 124 370
  - neuromuscular junction affected by (frog) 120 54P
  - neuromuscular transmission affected by (locust) 127 96
  - plasma calcium response to parathyroid hormone affected by concentration of (rat) 125 389
  - Viale genital system zinc deficiency effect on (rat), 129 53 P
  - Malleus stroboscopic illumination of move ments of (man) 116 177
  - Mammary gland alveoli contractility in (mammal), 123 32P
    - collagen content in pregnance and lacta tion of (rat), 124 32P
    - evidence against a parasympathetic in nervation of (goat and sheep) 133 66P
    - factors affecting contractile tissue in (mammal) 130 257
    - internal calorimetry measurement of blood flow in (mammal) 121 396
    - mvoepithelial cells in (mammal) 125, 8P pregnancy and lactation effect on collagen content of (rat) 132 476
      - skin temperature measurement during pregnanci and lactation of (man) 116 29 P

- Mammary gland, vascular changes during milk engorgement of (rat) 133, 65P
- Mammary gland mitochondria quan titative observations on (guinea pig), (T), 130, 22P
- Mammary myoepithelium contractile response to mechanical and hormonal stimuli of (T) 122 9P
- Man standardized photography measure ment of (T) 116 3P
- Mandibular incisors eruption rate of (rabbit) 128 74P
  - measurement of continuous cruption of (rabbit)  $124 \ 13P$
  - mechano receptors in (rabbit) 126 475
- Manometer differential and single pressure measurements by 127 2P
- Mariotte constant pressure device, im proved form of 118 4P
- Marrow culture inhibiting effect of per nicious anaemia serum studied on (man) 121, 1P
- Marsh factor', muscle fibres relaxation affected by (rabbit) 121 232
- Masson's trichrome stain strated and smooth muscle differentiation by modification of 119 23 P
- Mast cell heparm and histamine in tumours of (dog), 125, 47P
  - histamine in (mammal), 119 44P, 120 528 (hamster) 124 29P
    - in tissue (mammal) 117, 72P
    - distribution in skin and (mammal), 130
    - distribution in stomach and (hog) 130 3P
  - reserpine and 48,80 effect on histamine and 5 HT in (rat) 133 10P
  - X irradiation effect on (rat), 133, 512
- Mating, diet effect on (rat) 117 69P
- Meals gastric emptying affected by two successive (man), 126 465
- Meat digestibility of raw and cooked (man) 133, 40P
- Mechanical shutter brief rectangular pulses at low repetition rates by (T), 123, 29 P
- Mechanoreceptors adaptation changes by stretch of (frog) 133, 588
  - mandibular incisor containing (rabbit) 126, 475
- Mecothane Heidenhain pouch response to psychic stimulation potentiated by (dog) 120 393
  - pylonic antrectomy effect on secretory response of Heidenham pouch to (dog) 123 173

Medial longitudinal fasciculus, responses to stretch of eye muscles in (goat), 120, 494

Mediastinum, receptors in (cat), 123, 95 Medulla anovic depression in new born of (man), 125, 628

chemosensitive receptors in (cat) 118 545, 556

conduction velocities in pyramidal tract in (cat) 124 386

respiratory and vasomotor regions relation in (sheep) 126 86

rummation associated with centres in (sheep), 128 577

Medullated nerve current distribution in steady state of (frog) 117, 100

local responses in single fibre of (frog), 118 207

Megakaryocytes, spleen containing (hedgehog) 121 35P

Membrane capacity, Purkinje fibre mem brane resistance and (kid) 118, 353

Membrane conductance components of (Loligo), 116 473

potassium fluxes in axon and (Sepia) 128,

Membrane current nerve excitability and conduction in relation to (Loligo) 117, 500

radioactive potassium movement in giant axon and (Sepia), 121 403

Membrane manometer (T) 124 10P Membrane potential acetylcholine con centration effect on motor end plate (frog) 128 165

action potential rise in Purkinje fibre relation to (calf and sheep) 127 215 calculation of nerve (Loligo) 117 519

cerebral cortex after bursts relation to differences in (cat) 127 169

cortical neurones showing (cat) 130 96 electroplate showing (electric cel) 119 322

inhibitory post synaptic potential in motoneurone affected by (cat), 130 327 injected ions effect on motoneurone (cat) 130 295

nonic current relation to (Loligo) 116 477 membrane current density relation to (Loligo) 116 439

microelectrode measurement in spinal cord of (cat), 130 035

microinjection of substances into giant axon effect on (squid), 131 598

motoneurone excitatory post synaptic potential affected by (cat), 130 375 plain muscle showing (rabbit) 125 292, (guinea pig) 125 302

Membrane potential, potassium concentration effect on axon (Sepia) 128 66 potassium concentration effect on (frog), 133 640

sodium conductance in nerve affected by (Loligo), 116 497

Membrane potential measurements, tip potential influence on (frog), 133, 634

Membrane resistance, acetylcholme action on (frog) 128, 399

injected ions effect on motoneurone (cat), 130, 299

Membrane time-constant motoneurone (cat), 134, 459

Menstrual cycle cervical mucus viscosity variations in (man), 122, 362

lactation affected by (man) 118, 29 P uterine contractions during (man) 132, 553

Mepyramine, ileum movements affected by (guinea pig), 124 229

Mepyramine maleate, gastric and pan creatic secretions affected by (cat), 123, 1

Instamme and 5 hydroxytryptamme activity on ileum affected by (guinea pig) (T), 122 75P

Mercurial diuretic, mode of action of (man) (T) 117, 39 P

Merion rats (T) 127 29P

Mersalyl gastric mucosa electrolyte out put affected by (cat), 133, 324

oedema in isolated perfused lungs caused by (rabbit), 124 511 sodium pump affected by (rat), 123, 1P

Mesenteric nerves, functions of (cat) 116
229

Mesenteric preganglionic fibres (T), 123 13 P

Meso-inositol microbiological detection and determination of 132 4P

Metabolic rate, hepatectomy effect on (dog) 119 133

magnesium deficiency effect on (calf) 121,

oxygen inhalation effect on (man), 127,

relation between basal and total (rat),
122 47 P

standard activities effect on (man), 125

Metabolic water, calculation from respiratory exchange components of 122 399

Metabolism total energy (rat) 127, 479 Metabolism house lactating cows studied

m (T) 121 39P Metamorphosis <sup>121</sup>I m study of (*Lenopus*) 130 11P Metatarsal-phalangeal joint, passive movement appreciation in (man), 123, 10P 126, 448

Methanol, skin permeability to (rabbit), 133, 173

Methionine, absorption by everted sac of small intestine of (rat and hamster), 123 120

kidney slice conversion of d to l (rat), 119, 7P

renal clearance of stereoisomers of (cat), 116, 19P 122 4

Methonium compounds denervated ganglion reactions to (cat), 126, 102 potassium role in ganglion blocking action

of (T) 123, 69 P
lethoxytryptamine, metabolites of (rat),

127 123

lethylene blue, oxygen poisoning affected by (rat), 131, 200

Methylfurfuryltrimethylammoniumiodide, botulinum toxin effect on response of gut to (mammal), 127 462 Microcalorimeter, simple form of, 123

51 P

Micro gas analysis, simple method for 117 16P

Microelectrodes metal filled (T) 128 3P Microelectrode manipulator oil oper ated (T), 117, 44P

Micro-forge (T), 126, 11P

Micro-glass electrode intracellular pH of muscle measurement by (crab), 126 169

Micromanipulator spinal cord potentials recording and (cat) 125 603

Micropipette electric control of fluid ejection from, 128 158

Microphonic activity lateral line showing (ruff), 116, 137

Microprojector double for comparing histological preparations 118 17P

Microscope lamp (T) 118, 51P

Microscopic method, intracellular con centration measurement by (guinea pig and rat) 120 2

Microscopic particles counting of (T), 120 32P

Microsyringe injection into giant axon of substances by (squid) 131 593

Microtome knife honing machine (T), 118, 51 P

Microwave diathermy reanimation after hypothermia by (rat) 128, 541

Microwave radiation, pain threshold for (man) 118, 1

Midbrain, drugs effect on sympathin content of hypothalamus and of (cat) 123, 465

Midbrain, limb stimulation giving re sponses in (gont), 120, 520

long latency responses to stretch of eye muscles in (gont) 120, 498

response to stretch of extra ocular muscles in (cat), 128 183

short latency responses to stretch of eye and jaw muscles in (goat), 120, 471

Mid-brain stimulation, y fibre activity after afferentation of muscle affected by (cat), 122, 512

Milk mositol content of (mammal) 120,

nodine (radio active) excretion in (rabbit), 131, 77

virgin production of (rabbit), 126, 54P

Milk-ejection reflex, emotional inhibition of (rabbit) 125 43 P

Miners food consumption and energy expenditure of (man), 122, 54P

Miniature end-plate potentials botu linum toxin effect on (guinea pig) 134, 264

characteristics of (cat), 132, 62, (rat), 132, 649

depolarized muscle showing (frog), 128, 403

electronic polarization of motor terminals effect on (rat), 134 429

intra and extra cellular recording of (frog) 132, 630

isolated muscle showing (cat), 128 30 P osmotic pressure changes effect on spontaneous (frog), 134 691

Miniature booster amplifier, second channel of Cossor 1040 oscilloscope (T), 133, 35P

Mitochondria choline acetylase in brain (rabbit), 134 388

histamine content of (guinea pig), 131, 209

regenerating liver and (rat), 125 257

Mitosis folic acid antagonists action on (various), 123 606

leuconostoc citrovorum factor effect on (chick) 123 621

Mitotic activity, bile duct ligation effect on gall bladder epithelium (guinea pig), 119 21 P

hypophysectomy effect on adrenal cortex (rat) 127 265

Mitotic anaphase, chromosome pairing in (newt), 120, 32P

Mobile laboratory, muscular work and environment studies in (T), 123, 29 P

Modulator responses, retinal elements concerned in (pigeon), 122, 528

Monoamine oxidase, histochemical local ization of (cat and rabbit), 126 434

Monochromacy bright light producing artificial (man), 122, 342

Monoiodoacetate, cation transport in erythrocytes affected by (chicken) 125, 270

Monosynaptic reflex post-tetanic po tentiation and irradiation of (cat), 124, 60 P

post tetanic potentiation and rebound in (cat), 131, 32

quantitative aspects of (cat) 118 44P

Monosynaptic reflex activity, afferent fibres concerned in (cat), 122, 465

presynaptic localization of depression following 132 61P

Monosynaptic reflex discharge, inhibition of (cat), 122 475

Monosynaptic reflex input-output analysis (cat) 125, 30P

Monosynaptic response, muscle spindle stimulation effect on (cat) 117, 366 post-tetanic potentiation of (cat), 128, 90

Morphine, blood catechols affected by (horse) 132 549

ileum affected by (guinea pig) (T), 129, 82P

sympathin content of hypothalamus affected by (cat and dog), 123, 463

Mosquito nets cotton and synthetic fibres affecting properties of, 127, 56P

ventilation and thermal comfort affected by 127 45P

Motoneurones, activation during post tetanic potentiation of (T) 132 53P combined reflex and direct current stimu lation of (T) 117 44P

direct current effect on (frog) 120, 569, (cat) 122 315 126 494

electrical noise level of (cat) 117 448 factors affecting excitatory post synaptic potential in (cat) 130 374

heterosynaptic activation during post tetanic potentiation of (cat) 128 89 inhibitory post synaptic potential in

(cat) 126 526 inhibitory suppression of reflex discharges from (act) 130 396

from (cat) 130 396 intracellular recording of antidromic im

pulse invasion of (cat) 122 429 intracellular recording of potentials from (cat) 117 431, 126, 525

intracellular stimulation of (cat) 134 451 local feedback control of (cat) 123 47P potentials recorded in spinal cord from (cat) 130, 643

spasticity induced in (cat) 131 46

Motoneurones, synaptic excitation and inhibition in (cat), 117 8P

temperature effect on antidromic activation of (frog) (T) 133, 35P

Motoneurone membrane, electrical properties of (cat), 130, 291

post synaptic potential in (cat) 130

Motoneurone pool excitability, vama tions in, 132, 59 P

Motor area movement relationship to olectrical activity on stimulation of (baboon and man), 125, 283

Motor axon Renshaw cells affected by collaterals from (cat), 126, 533

Motor cortex apparatus for intracellular recording from (T), 126, 11P

delineation of (goat) 133 160

internal capsule stimulation companson with stimulation of (man), 123 49P

limb position affecting responses from stimulation of (monkey), 122 371

thalamic nucleus stimulation inhibitory effect on neuronal activity in (cat), 133 40

tubocurarine (intraventricular) effect on electrical activity of (cat), 132, 132

Motor cortex lesions prehension rumi nation and progression affected by (goat) (T) 124 16P

Motor cortical responses proprioception effect on map of (monkey) 122, 371 Motor end plate acetylcholine action on

depolarized (frog) 128 398 calcium action on potentials of (frog) 116

ionophoretic application of acetylcholme to (T) 128 31 P

potential and resistance changes at, 123

Motor end-plate depolarization cholm esterase inhibiting drug effecting (cat), 124 325

Motor nerve, afferent fibres in (cat) 117

differential narcosis with procaine of (cat)
131 30P

multiple innervation of skeletal muscle fibres by (cat and frog) 126 293

vasomotor and sudomotor effects of black of cutaneous nerves and of (man) 132

Motor nerve endings electronic changes in random activity of (T), 124 2P electrotonus at (frog) 124 586 magnesium action on activity of (frog)

124 553

Motor nerve endings, osmotic pressure changes effect on spontaneous activity at (frog), 134, 690

spontaneous sub threshold activity at (frog), 117, 109

Motor nerve fibres, relative excitability and conduction velocity in sensory and (man), 131, 436

Motor nerve filaments botulinum toxin action on (cat), 123, 501

Motor terminal arborization electronic potential attenuation in, 133, 42PMotor unit voluntary contraction and

activity of (man), 125 322

Motor volley, synchronization of (cat and man) 124 313

Mount Everest closed circuit oxygen apparatus as used on (T), 123 24P

open circuit oxygen equipment used by, 123 24P

respiratory exchanges measurement on, 123 25P

Mousseau's nerve, parotid gland secretion effected by (sheep) 131, 15

Movement perception eve acuity for (locust) 125, 572

Movement in single file (T) 125 15PMüller photoelectric pulse counter, re mote recording by (T), 127 45P

Multi-channel recorder using pulsetime multiplex techniques, 126, 7P

Multi channel stimulator (T) 132, 53P Multiple-trace cathode-ray graph, single gun tube with (T) 133 35P

Muscarine botulinum toxin effect on response of gut to (mammal) 127 455 ganghonic action of natural (T) 119 53P Muscle measurement of active state of (T),

new preparation of isolated fibres of (crab) (T) 133 35P

sensorv endings in (mammal) (T), 126

sodium distribution in (T) 125 66P

Muscle afferent fibres, repetitive activa tion of inhibitory and excitatory col laterals of group I, 134 15P

Muscle afferent volleys, spinal cord potentials from (cat) 125 590

Muscle antagonists strength affected by training of one of (man) 129, 332

Muscle blood flow thermo electric needle recorders for (T) 124 56P

Muscle constant a thermal and mechanical derivation of (Mytilus), 133 36P

Muscle heat production smoked drum recording of (T) 128, 37P

Muscle intracellular electrolytes, hypo thalamic lesions and electroly to deficient diets effect on (T), 126 29P

Muscle phosphate esters, adrenalectomy effect on (T) 125 66P

Muscle spindles (man), 133, 1P

electrotonus of sensory nerve effect on discharge from (frog), 127, 636

post tetanic potentiation affected by (cat). 131, 35

sensory nerve endings polarization effect on discharge of (frog) 124 2P

supraspinal control of (cat) 122 498 tongue intrinsic muscles containing (man and monkey), 122 193

Muscle-spindle afferent 'final common path and 118 8P

Muscular contraction hydrostatic pres sure effects on (T) 120, 38P

Muscular control, sensitive accelero meters for work on, 132, 9P

Muscular work factor analysis of haema tological changes in heavy (T) 121,

grading of (man), 133 19P

Muscularis mucosae, properties of oeso phageal (mammal), 130, 123

response to drugs of gastric (man) 120 385

Muzzle, sensory nerve endings in (cow) 130 3P

Myasthenia gravis neuromuscular trans mission in (man) 122, 252

Mydriatic drugs, albino and pigmented iris affected by (rabbit) 119 107

Myelinated nerve, saltatory conduction in (frog), 118 107 stretch effect on single fibres of (frog)

124 84 Myelin, Pacınıan corpuscle nerve distribu

tion of (cat), 129 167

Mvoepithelial cells contractility (mammal), 130 259

mammary and parotid glands containing (mammal), 125 8P

Myogenic rhythm, mechanism in insect skeletal muscle of (cicada), 124, 269

Myoglobin, flash photolysis determination of carbon monoxide velocity of combination with (whale) 134, 112

Myograph stand, versatile (T), 124 15P

Myoneural junctions electric recording from (frog) 131, 665

Myoplasm specific resistance in Purkinje fibre of (kid) 118, 353

Mytilus edulis, l ammo acids o cidation by digestive gland of, 129, 11 P

Mytilus edulis, contraction and relaxation of adductor of, 120 129

Myvine heart innervation in, 131, 257

Nail fold constancy of capillary pattern in (man), (T) 130, 36P

Narcosis, E E G patterns with depth of (cat), 120 56P

Neck reflexes, γ fibre activity associated with (cat), 122 513

Necropsy, performance of certain physio logical experiments at (man) 133, 48 P

Negative after-potential giant nerve fibre showing (Loligo) 131, 353

Negative work, force and speed changes effects during (man), 118, 50 P

force and speed effect on oxygen con sumption during (man) 120, 319

physiological cost of (man) 117 17P, 117 380

studies on positive and (man)(T) 117,38P

Nembutal See Pentobarbitone sodium Neoarsphenamine skin histamine libera tion by (dog) 116, 10P

Neonatal blood pressure, physiological responses of (T) 133, 69 P

Neostigmine acetylcholine synthesis in hibition in brain slices by (guinea pig), 131 335

decamethonium action in myasthenia gravis affected by (man) 122 254

Neosynephrine ileum affected by (guinea pig) 118 172

Nephritis ion exchange resins in treatment of subacute (T) 119 34 P

Nerve, amino acids loss from (crab) 126, 34P

anode break excitation in desheathed (frog) 131 243

current voltage relations in (Loligo) 116 424

depressed conduction velocity with lesions in continuity (T) 130 38 P

differential block of fibres of (frog) 121 292

factors affecting recovery from fatigue of (rabbit) 120 373

impulse size and fibre composition of (rat) 133, 422

internode length—diameter relationship in Pacinian corpuscle of (cat), 129 171

intracellular calcium content of (squid and crab) 134 399

membrane current in (Loligo) 117 500 non myclinated fibres absence in somatic (T) 117 20P

perfusion effect on behaviour of (frog) 123, 338

Nerve, post tetanic effects in C fibres of (rabbit), 134, 699

potassium mobility and diffusion coefficient in (Sepia), 119, 513

potassium permeability of (Sepia), 128

quaternary ammonium ions effect on (crab), 122, 588

recovery after prolonged stimulation of degenerating (rabbit), 123, 234

saltatory conduction in (frog), 118, 107 single fibre excitability in whole (frog), 117, 87

sodium active transport in (Sepia), 128, 28

and potassium distribution in (cat), 128, 473

and potassium exchange in (frog) 133
395

and potassium ionic currents in mem brane of (Loligo), 116 449

conductance continuity in (Loligo), 116
477

exchange rate in (cat) 128, 489 lack effect on (frog.) 118, 3P

movement in activity and recovery differentiated in (Sepia), 128 55

spread of failure of conduction in degenerating (rabbit) 119, 45P

stretching effect on single fibre of (frog), 124 84

Nerve activity magnetic tape recording reproduction of wave forms of, 125 13 P

Nerve axon, 4sodium efflux from (Sepia), 128 28

Nerve block, hand vasodilator responses affected by (man), 131 649

length of nerve cooled affecting (cat), 130

Nerve blood supply recovery from fatigue affected by (rabbit) 120 378

Nerve conduction an electrotomic restoration after heat block of (frog) 126 12P cooling effect on (cat), 130 53

degeneration effect on spread of (rabbit), 121, 215

Nerve conduction velocity, motor and sensory (man) 131, 444

Nerve crush a oplasm and myelin mixing after (rabbit) 117, 20P

Nerve degeneration, spread of failure of conduction (rabbit) 121 215

Nerve depolarization sodium conduct ance time course in maintained (Loligo), 116 485

Nerve excitability motor and sensory (man) 131, 438

Verre desheathed sodium and potassium content of (cat) 128 476 \*Codium exchange rate in (cat) 128 492 weight change in Tyrode solution of (cat), 128 494 Nerve impulse frequency pulse interval mater for direct recording of 121 31 P See Neuro Nerve muscle junction muscular junction Verve regeneration cortisone effect on (rabbit) 126 629 predegeneration effect on rate of (rabbit) 126 632 for \errous tissue microelectrodes plotting currents in (cat) 122 24P Nettle sting hydroxytryptamine identifi cation in, 130 41 P Neurohypophysis uptake of 111 labelled Avroxing and truodothyronine by (T) 129. 43 P \euromuscular block, magnesium and nature of (frog) 124 370 \euromuscular blocking substances motor end plate differences affecting mode of action of (mammal) 122 238 red and white muscle differential response \*o (cat) 124 417 species differences in (T) 117 2P leuromuscular delay slow fibres showing (frog) 121 311 leuromuscular depression statistical factors involved in (frog.) 124 581 Neuromuscular facilitation motor nerve ending stretch effecting (frog) 133 sympathetic stimulation producing (frog) (T) 130, 49P leuromuscular junction acetylcholine release at mexcitable (frog) 126 27P anodic polarization of nerve-endings causing facilitation at 123 SP atrophy and hypertrophy effect in red and white muscle on (ca ) 120 48P atrophy of red and white muscle causing changes at (cat) 124 429 end plate potentials at (cat) 132 74 facilitation at (frog) 124 574 (rat) 133 local activity at depolarized (frog) 128 local-circuit transmission failure at 123, localization of active spots within (frog), 132 629 magnesium action on (frog) 120 54Ppresynaptic polarization effect on spon taneous activity at (rat) 134 427

spontaneous activity of (rat) 132 649

subthreshold activity at (cat) 132 61 statistical aspects of transmission at single 120 32P statistical composition of potentials at (frog) 130, 114 sympathetic stimulation facilitation at (frog) 130 559 TEPP action on (cat) 116, 205 Neuromuscular response prior instruc tion effect on apparently involuntary (man) 132 17P Neuromuscular transmission brain in hibitory substance action on (cat) 129 389 cations effect on (locust) 127 90 choline effect on (cat) 117 241 drugs action on (guinea pig) 122 274 effect of drugs in spinal guinea pig on (T) 117 2P muscle stretch facilitation of (frog) 131 18 P polarizing currents effect on (frog) 124 597 post tetanic restoration after curare blocking of (cat) 118 216 slow and fast' mechanisms (locust) (T) 129 58P sodium effect on (frog) 118 73 temperature effect on (locust) 121 542 Neuromuscular transmitter membrane change produced by (frog) 125, 546 slow fibre membrane affected by (frog), 132 509 Neurone, chromatolysis and the model of (cat) 124, 28P electronic model of 127 169 mechanoreceptor properties of central (frog) 117 59P radial current flow effect on type B (cat) 125 439 spasticity induced in (cat), 131-46 structure and function in isolated cerebral cortex of (cat), 118 412 Neurosecretory substance, histochemical investigation of (rat) 133 41P Neutron cataract in a rabbit (T) 116 46P Newborn, cardiac murmur from patent ductus arteriosus in (sheep), 128-344 carotid sinus and body activity

(mammal) 118 10P

(T), 118 50P

129 2SP

diuretics effect on (rat and dog), 118

dorsal and ventral root potentials in (cat)

ductus arteriosus constriction in (sheep)

Neuromuscular junction, spontaneous

Newborn, ductus arteriosus patency in (sheep), 128, 361

foramen ovale closure in (sheep), 128, 384 hypoxia effect on oxygen consumption of (dog) 131, 27 P

hypoxia oxygen consumption and body temperature in (cat), 133, 69 P

lung changes in (sheep), 121, 141

metabolism, growth and renal function in (pig), 133, 373

overgen consumption relation to arterial O<sub>2</sub> saturation in (sheep) 133 11 P

15% oxygen effect on metabolism of (man), 129 69P

pulmonary blood flow affected by lung ventilation in (sheep), 118 45P

respiratory depression by anoxia in (man), 125, 628

venous pressures in (sheep) 128 392

Nicotine botulinum toxin effect on response of gut to (mammal) 127, 454

ciliary ganglion affected by (cat) 119, 459 ciliary ganglion significance in dilator action on pupil of (cat) (T) 117 36P ganglionic depolarization by (cat), 119,

gastric muscularis mucosae response to (man) 120 369

gastric stretch receptor activity affected by (cat) 126 273

hexamethonium effect on carotid body response to (cat), 118 377

histamine and pilocarpine effects on sympathetic ganglion affected by (cnt), 129 345

m brome and 3.5 dibromophenyl ethers of choline compared with (various), 118, 67 P

muscle blood flow affected by (cat), 118,

plexus free circular muscle of jejunem affected by (cat), 119, 383

Renshaw cells affected by (cat), 131, 155 skeletal muscle blood vessels affected by (cat), 123 289

spinal reflex activity affected by (frog), 117 407

Nictitating membrane adrenaline derivatives action on heart rate and (cat), 122, 60 P

amine oxidase content relation to hyper sensitivity of denervated (cat) 120, 224

denervation effect on amines action on (cat) 118, 34P

denormation effect on amine oxidase in (cat) 116 21P

isolated preparation of (cat) 129 70P, (T), 130 6P

Nictitating membrane, muscles retracting (cat) (T), 120 55P

pre and post ganglionic denervation effect on response to drugs of (T) 119 51P

pre and post ganglionic denervations effect on response to sympathomi metic substances of (cat), 124, 25

Night alveolar carbon dioxide tension during (man), 122 68

Nitrate active state of muscle affected by (frog) 126 155

motoneurone inhibitory post synaptic potential affected by (cat), 130, 331

Nitric olide haemoglobin reactions with (sheep), 128, 69P

Nitrogen, diffusion coefficient in haemo globin solutions of (sheep), 118 264

Nitrogen balance, pregnancy effect on (rat) 133, 167

Nitrogen metabolism, newborn and (pig) 133, 378

Nitrous oxide diffusion coefficient in hacmoglobin solutions of (sheep), 118 273

Nociceptive nerve fibres, size and responses of (toad and cat) 117, 134

Node of Ranvier, excitability of (frog), 117 91

local responses in single fibre (frog) 118 207

Pacinian corpuscle nerve containing (cat)
129 170

Nodose ganglion blood supply to (T), 117, 19P (mammal) 118 528

Non-medullated afferent C fibres buffer nerves containing (cat and rabbit), 134, 167

Non-medullated axon action potential in motoneurone from (cat), 122, 432

Non-medulated nerve, after effects of repetitive stimulation of (rabbit), 134, 699

cooling effect on action potential of (rabbit) 134, 713

orientation of regenerating (rabbit), 120, 52P

Noradrenaline acetylcholine action on end plate potentiation by (frog) 130,

adrenal gland methylation in vitro of (mammal), 117 68 P

BAL effect on blood sugar with (rabbit),

bladder contractions affected by (cat), 127 60

blood pressure in normal and hypertensive state affected by (rabbit) 127-71 Noradrenaline, central nervous system durabation of (dog) 123 458

da tas arteriosus in foetus affected by (thep) 132 324

fra al circulation affected by (sheep) 134

for al perfused heart affected by (man) 120 122

E ar release of (rabbit) 134 564

Longin vessels affected by (dog) 128-424 became vessels in perfused liver affected by (mammal) 132-511

L\_amin= induced gastric secretion affected by (dog) 133 498

il-un affec ed by (guinea pig) 118 171 1 m blood vessels affected by (dog) 133

472 hrs- blood flow affected by (rat and

rador') 120 81 hver marrivation of (man) 118 13P

Firstal and fostal circulations affected by (rabbit and guinea pig) 118 282

affected by (car) 130 422

see's al mustle blood flow affected by (cat) 117 12P

ske's al muscle blood flow affec ed by mravenous and intra arterial injection of (cat) 120 105

shela al muscle blood vessels affected by (man) 123 443

S-p effect on plasma (man) 131 170

हा -= affected by (dog) 123 212

esponses affected by (car) 132 536

\*-ea\*mg relation to content in blood of fcore) 132 542

mps hectomy effect on hand blood flow response to (man) 129 55

Finance transmission and adrenal medul lary secretion affected by (dog) 130 502

throid gland uptake of 131I affected by (rabbit) 131 S7

touch receptor response in skin affected by (frog) 132 46

b" (ra\*) 118 493

Nose gurar orr sweating on (man) 124 530 Sucleus ventralis lateralis motor cortex normal inhibition by stimulation of (car) 133 40

\rstagmus darkness inducing (cat), 121

habmanon in rotatory and calone (rabbi\*) 123 33P

repeated stimulation effect on rotational and calone (rabbit), 124-130

Obesity, protein metabolism on restricted diets in (man) (T) 119 34 P

Obex reticulo ruminal response to stumu lation in region of (sheep) 128 581

Obituary Charles Scott Sherrington 118

Occlusion direct inhibitors pathway chowing (ca\*) 132 60P

Ocelli responses of (locust) 125 571

Octalamine, histamine release from mito chondria by (guinea pig) 131 211

Odour likeness olfactory adap ation and (man) 133 301

Odours characterization of (man) 125 453

Oedema tempera ure effect on rate of formation in perfused isolated ear of (rabbi ) 128 b11

Oenanthotoxin general pharmacology of 129 79 P

Oesophageal muscle tubocurarine effect on (rat) 123 1P

Oesophageal temperature factors affecting (man) 126 347

Oesophagus extransic neural control during swallowing of (ra.) 132 13P

medulla oblongata stimulation effect on (-heep) 128 584

nervous control during swallowing of cervical (rat) 134 730

Oestrogen potassium gradient and thresh old in uterus affected by (rabbit), 133 148

progesterone antagonism in uterus to (rabbit) 116, 246

progesterone local antagonism to (mouse and rabbit) 124 39 P

thyroid gland activity affected by (rabbit), 127-391

uterine excitability length tension rela tion and kinetics affected by (rabbit) 126 384

uterine response in tiro to stimulation affected by (rabbit) 129 295

vagina in tissue culture affected by (mouse) 131 497

Oestrogen phosphates tissue dephos phorylation of (histochemical) (rat) 124 409

Oestrone insulin and progesterone interaction on isolated uterus with (rat), 128-113

vagina in tissue culture affected by (mouse) 131 504

Oestrus cervical sympathetic system and light-induced (ferret) (T) 131 13P

hypothalamic lesions in winter inducing (ferret) 132 57P

Oestrus, pituitary stalk section effect on light induced (ferret), 131, 102

sympathectomy effect on light induced (ferret), 132, 123

water, Na and K excretion affected by (dog) (T), 129, 82P

Oestrus cycle, energy expenditure affected by (rat), 127, 489

oestrus behaviour and (cat) (T), 130, 36P reanimation after hypothermia effect on (rat), 128 463

Olfaction, mechanism of (man), 125, 455 Olfactory adaptation, odour likeness and (man), 133, 301

Olfactory membrane, odorants adsorption by (sheep), 130, 543

Olfactory organ, pigment changes in skin and (amphibia) (T), 130, 39 P

potential oscillations in (rabbit), 128, 21 P Olive, anatomical and physiological studies of (cat) (T) 118 5 P

Ommatidium, angular limits of field of view of (locust) 125, 574

Open-circuit oxygen equipment,

Everest Expedition use of 123 24P Operation, water and electrolyte changes after (T), 119 34P

Optic lobe, retinal representation on (pigeon) 121 44P

visual stimulation effect on electrical responses of (locust), 133 68

Optic nerve action potentials in single fibres of (rabbit) 119, 196 compound spike potential of (cat), 121,

inhibition of activity in single fibres of (rabbit) (T) 118, 61P

Optic nerve stimulation lateral genieu late nucleus response to (cat), 134, 540

Optic tectum, electrical responses of (chicken), 120 52P

histological structure of (chicken) 120 51P

Optic tract fibre size distribution in (cat), 121, 418

Optometer high speed infra red recording, 133, 31 P

Oral temperature factors affecting (man) 126 347

Orbital cortex, carotid blood heating action on blood pressure affected by (cat), 132, 47 P

Organ of Jacobsen synchronized dis charges from (rabbit), 126 28P

Organs of Zuckerkandl activity in early life of (man) 118, 11 P

Oro-nasal mask 127, 49P

Orthodromic stimulation, DC stimula tion of motoneurone interaction with (cat), 126, 501

Oscilloscope, cathode followers and inter changeable preamplifiers for use with (T), 132, 32P

large screen for student demonstrations (T), 125, 14P

miniature battery driven (T), 129, 40P Oscilloscope preamplifier, direct coupled 117, 15P

Osmoreception, alimentary (T), 131 29 P

Osmoreceptors, gastric emptying time affected by (man), 132 267

Osmotic diuretics, new born and infant response to (rat and dog), 118, 388

Osmotic pressure, resting muscle end plate potentials affected by (frog), 117, 121

spontaneous activity at motor nerve endings affected by changes in (frog), 134,690

Otolith organs, galvanic polarization effect on impulse discharge from (ray) 127, 112

Ouabain, footal perfused heart affected by ACh and (man), 120, 125

vagal stimulation action on perfused heart affected by (rabbit), 131, 682

Ovarian hormones, uterine reactions in situ affected by (rabbit), 129, 289

Ovorubin, properties of (amphibian small), 131. 3P

Ovulation, adrenaline and acid injection into hypothalamus effect on (rabbit), 132 577

hypothalamus injections effect on (rabbit), 128 13P

uterine contractions influenced by (man)
132 555

Oxidation-reduction potentials, mea surement in vivo of (rat), 129 33 P

Oxygen alveolar carbon dioxide tension in oxercise affected by administration of (man) 125 98

Douglas bag loss with time of 127, 521 ductus arteriosus in mature foctus af fected by (sheep), 132 308

exercise capacity affected by administration of (man) 125 116

haemoglobin in solution and in red cell reaction with (man) 129 67

premature infant a respiration affected by concentration of, 117-38

respiration affected in normal and congenital heart disease by inhalation of (man) 127 498 Oxygen, ventilation rate in light exercise affected by (man), 125, 66P

Oxygen box humidifying and cooling devices with 95% O, in, 127, 50 P

Oxygen concentration continuous re cording in gas mixtures of, 126, 10P

Oxygen consumption, climbing at low altitudes effect on (man), 128, 209

foetal organs and (lamb), 126, 577

durnal variation in (rat), 127 487

force and speed in negative work effect on (man), 120 319

hypoxia in new born effect on (dog), 131, 27P

measurement in viio of skeletal muscle (man), 128 268

negative work causing increase in (man), 117, 383

plain muscle activity in relation to (guinea pig), 122 111

reanimation after hypothermia effect on (rat) 128 458

Oxygen equipment analysis of functioning of, 123, 16P

Oxygen extraction, climbing with loads at low altitude effect on (man) 128 301 Oxygen high pressure, adrenalectomy

effect on actions of (rat) 125 46P Oxygen lack, foetal circulation affected by

(sheep) 134, 149 hypercapnia and acapnia effects on respiratory response to (man) 133

respiratory studies on effect of (man) 129,

Owen tension continuous simultaneous recording in inspired air and subcutaneous tissue of (T) 129, 7P

Oxygen toxicity vitamin E deficiency and methylene blue effect on (rat) 129 62P 131, 200

vitamin E deficiency effect on (rat), 121

Oxygen utilization comes in two and in titro (rabbit), 117, 461

Ownaemoglobin, carboxy haemoglobin dissociation curve compared with that of (sheep), 126 374

method of crystallization of (T) 130, 39 P temperature effect on pH of solutions equilibrated with CO<sub>2</sub>/air mixtures (horse) 130, 53 P

Oxytocic factor, anticholmesterase injection into supraoptic nuclei affecting output of (dog) 133 330

Ovytocin assat in blood of (rat) 126 388 intracellular localization in pituitary of (rat) 127, 303

Pacemaker calcium ions effect on thresh old of (calf and sheep), 129, 570

Pacemaker potentials, cooling effect on (rabbit), 131, 188

Pacinian corpuscle, mechanical properties of, 132 23 P

myelm distribution on nerve fibres from (eat), 129 167

neurohistological observations on (T), 124 2P

perfusion of (cat), 132, 27P

potentials from (T), 120, 35P

receptor potentials in (cat), 122, 27P, 122, 610

site of initiation of impulses in, 133, 54 sodium and other ions movement in (cat) 129 594

time course of impulse initiation in (cat), 122 616

Packed cell volume, red cell count mea surement by (man), 134, 15P

Pack Fitness Index hot humid atmos phere effect on (man), 122, 71 P

Pain, tryptamine and serotonin producing (man), 117, 70P

Pain threshold, microwave radiation (T), 119 31 P

microwave and infra red radiations and (man) 118 1

Palate sensory nerve endings in (man), 123, 26P

Palmar sweating menstrual cycle and pregnancy effect on (man) (T), 130, 36P

Pancreas slices, pancreozymin actions on (pigeon) 132, 442

Pancreatic juice secretion secretin assay method by (rabbit) 118 182

Pancreatic secretion (Film) (T) 125 55P

evtology of 127 26P

urogastrone enterogastrone and mepyr amine maleate action on (cat), 123 1 vago vagal effects on (cat), 129, 54 P

Pancreozymin, cholecystokimin action of (man) 121, 19P

pancreas slices affected by (pigeon) 132, 442

Paraplegia cardiovascular responses to bladder distension in (man) 121, 581

Parasympathetic ganglion acetylcholme action on (cat), 119, 455

Parasympathetic nerve stimulation, colon response to (rabbit) 128 561 parotid secretion affected by (sheep), 131,

Parasympathetic reflexes, hypothalamic lesions effect on (cat) 131, 407

- Parasympathomimetic drugs, myoepi thelial cells affected by (mammal), 130, 260
- Parathormone, plasma calcium and mag nesium effect on response to (rat), 125, 389
- Parathyroidectomy plasma calcium in assay of parathyroid hormone after (rat), 125 383
- Parathyroid extract phosphaturia fol lowing injection of (man) 124, 38 P renal phosphate activity /plasma calcium activity in (mouse) 130 86
- Parathyroid hormone, mouse urine phos phate assay for (mouse), 130 79 plasma calcium after parathyroidectomy in assay of (rat) 125 383
- Parietal cortex, splanchme nerve stimu lation effect on (cat) 116, 8P
- Parotid gland chewing relation to secretory activity of (T), 131, 30 P my oepithelial cells in (sheep) 125 8 P reflex secretion by (sheep) 129 55 P secretion by (sheep) 131, 13 secretomotor mechanisms of (sheep) (T),
- 129 7PParotid saliva adrenaline action on flow of (sheep) 130 15P
  - sodium depletion effect on Na K ratio in (sheep), 131 516
- sympathetic stimulation effect on flow of (sheep), 125, 24 P
  Parotid saliva Na/K ratio rapid change
- in Na balance effect on (sheep) 133
  37P
- Parotid secretion method of recording rate of outflow of (man) (T), 131 25P Parturition (rabbit)(T), 123, 13P, (Film)
  - (T), 123 30P blood pressure affected by (rabbit), 125
  - energy expenditure during (rat) 134 659 hormones effect after ovariectomy on (mouse), 134 16 P
  - uterine collagen loss following (rat) 132 502
- 'Parturition' efforts, evocation in non pregnant doe of (rabbit) (T) 123 77P Passive cutaneous anaphylasis skin
- Passive cutaneous anaphylavis skin histamine depletion effect on (rat) 129, 217
- Pelvic afferent nerves, bladder contrac tion effect on discharges in (cat) 128 602
- Pelvic nerve colon response to stimulation of (rabbit), 128 561
- Penicillin G sex variation in growth response of young to (cat) (T) 127 42P

- Penicillin, histamine excretion affected by (rat) 125, 539 weight gain affected by (kitten) 122 61 P
- Pentobarbitone sodium, GFR and glucose re absorption affected by (dog) 132 218
  - liver and brain temperature affected by (rat) 116 194
- sympathetic ganglia metabolism and transmission affected by (rat), 130 4.9 Pepsin insulin hypoglycaemia and psychic
- stimulation effect on Heidenhain pouch secretion of (dog) 120, 397 pyloric antrectomy effect on Heidenhain
  - pouch secretion of (dog), 123 179 test meal volume changes effect on (man)
- 117, 290
  Peptide small intestine absorption of (rat),
  121 260
- Perfused intestine, technique for study of absorption in (T), 128 68 P
- Perfused liver, technique for maintaining normal amounts of potassium in (rat) (T) 119 7P
- Perfusion method, new types of 121 97 Perfusion pumps, all plastic, 132, 32P large outputs 122 67P
  - small (rabbit) 129 37P
- Perineurium barrier formed by (frog) 123, 347
- Peripheral resistance sarm and TFPP action on (dog), 133, 480
- Peristaltic reflex, factors concerned with (guinea pig) (T) 120, 56 P
- Pernicious anaemia sodium extrusion rate from erythrocytes in (man) 121, 474
- pH acetylcholine synthesis affected by (blowfly) 132, 346
  - auricle rate affected by (rabbit) 129
  - carboxylaemoglobin equilibrium affected by (sheep) 126 373
  - cutaneous pain responses to (man) 120 335
  - measurement in two of 129 33P
  - micro glass electrode measurement in muscle of intracellular (crab) 126 169
  - retinal extracts affected by (Lenopus)
    125 29
  - rumen absorption of electrolytes affected by (sheep) 121 460
  - sodium transport in erythrocytes affected by (man and chicken) 129 488
- Phagocytosis blood platelets influence on (man) 122 71 P
- Phenol red, gastric emptying time affected by (man) 132 269

Phenyldiguanide, gastric stretch receptor activity affected by (cat) 126 273

location of visceral receptors sensitive to (cat) 124, 167

pulmonary and cardiovascular vagal receptors affected by (cat) 121 183

Phenylthiocarbamide taste thresholds in various ethnic groups for (man) 129,

Phloretin glucose and water absorption affected by (rat), 134, 683

Phlorhizin glucose absorption in vivo inhi bition by (rat) 131 16P

glucose and water absorption from small intestine (isolated) affected by (rat)

glucose transport inhibition in the in vitro mtestine by (rat), 130 11P

mtestinal absorption and intestinal phos phatase affected by (rat) 134 676

Phosphatases ervthrocyte and distribu tion of (man). 116 112

oestrogen phosphates dephosphorylated in tissues by (histochemical) (rat) 124

Phosphate, blood cell volume measure ment by labelled (rabbit), 116 62

cortisone effect on distribution in body of (man) 131 9P

histamine liberators reaction with (cat) 131 13P

10110phoresis along skeletal muscle of (frog) 124, 249

motoneurone inhibitory post synaptic potential affected by (cat) 130, 339 renal excretion at high plasma concen

trations of (man), 131 555 skeletal muscle liberation of (frog) 122

Phosphate excretion insulin effect on (cat) 124 625

unne flow effect on (mouse) 130 81

Phosphate reabsorption plasma glucose concentration effect on (cat) 124, 615 tubular maxima for (man) (T) 125 66P Phosphate Tm G.F.R variation effect on

(man) 131 557

method of estimation of (man), 130 268 Phospholipids pancreozymin effect on incorporation in pancreas slices of 32P into (pigeon), 132 443

Phosphorus transfer rates of (rat) 132 1 Photochemical studies in vivo (grev squirrel) (T) 127 9P

Photographic records, instrument for direct measurement of (T) 118, 21 P Photomultiplier photometer high sensi

tivity simple (T) 126 11P

Photopic dominator response, retinal elements concerned in (pigeon) 122, 528

Photopic sensitivity (cat), 123 409

Photopic vision theoretical interpretation of. 130, 49

Photopigment spectral absorption in single rods of (Xenopus) 130 533

Photosensitization 48/80 effect on re sponse to (rat) 120 561

Phrenic motoneurones, reflex activity of (cat), 117 10

Phrenic nerve discharge anticholin esterase effect on (rabbit) 126, 59

Physique weight lifting training effect on (man) (T) 116, 27P

Physostigmine brain electrical activity in conscious animal affected by (cat), 120.

choline action on neuromuscular junction affected by (cnt), 117 246

Pick-up unit and amplifier for ballisto cardiographic table (T) 132 53P

Picroto in cortical neurone discharge affected by (cat) 121, 132

Pilocarpine ganglionic transmission po tentiation by (cat), 129, 337

gastrie blood flow affected by (guinea pig) 124 62P

superior cervical ganglion (perfused) responses affected by (cat), 132, 530

Pilomotor axon reflex (T), 118, 58P Pineal extracts gonadotrophic pituitary

functions affected by (T), 126, 37P Pitch hearing deficiency effect on relation

of sound intensity to (man), 129 225 Pitch defect local loss of sensitivity with

(T) 128, 24P

Pitch-intensity relation, high frequency deafness and (man), 134 742

Pitressin ADH excretion following in jection of (rat), 124, 464

forearm blood flow and blood lactate affected by intravenous (man), 132, 10Pgastric muscularis mucosae response to (man) 120 369

hand blood flow affected by infusions of (man) 127 1P

Pituitary hormones Na and K excretion affected by (dog) 131, 33P

Pituitary stalk section light induced oestrus affected by (ferret), 131 102

Pituitrin atrial and depressor receptors affected by (cat), 121, 185

Placenta collagen increase with growth of (rat) 128 228

comparative histochemistry of carbo hydrate in (T), 120 22P

Placenta, concentration gradient of plasma blood sugar across (rabbit and guinea pig), 134, 96

fructose and glucose production by (sheep), 118 58 P

fructose formation by (sheep), 129, 370 glucose transfer kinetics of (sheep), 118, 23

gly cogen in (rabbit), 129, 68P

hexamethonium transfer through (rabbit), 116, 4P 122, 93

hexoses transmission across (man and monkey), 132, 289

iodide transport across (mammal), 132,
 365

passage of sugars across (monkey) 127 8P

permeability to inositol of (mammal), 126, 78

proportion of foetal circulation to (lamb), 126, 575

radioactive sugars transfer by (sheep), 129, 352

sugars passage across (man) (T) 132, 12P

umbilical artery perfusion of (sheep), 120, 22P

Placental circulation adrenaline and nor adrenaline effect on (rabbit and guinea pig), 118 282

Placental glycogen, cortisone and (rabbit), (T) 120 18P, 120 68P

Placentomes vascularization of (Cervidae), (T) 119, 6P

Plain muscle, ATP changes with tension and work of (guinea pig) 128 38 P

contraction and relaxation in (*Mytilus*) 120, 129, (*Pecten*) 124, 100

DNP effect on (guinea pig) 126, 24P 127, 626

electric potentials recorded in (guinea pig) 123 55P

electrical properties of (crab) 120 171
heat production in (Mytilus) 130 25P
ileum longitudinal muscle removed as a
broadsheet of (rabbit) 125 53P

intracellular recording of potentials in (rabbit and guinea pig) 120 8P

mechanical properties of (Mytilus) 120 50 P

inembrane potentials and tension in (T) 126 2P, (rabbit) 125 292 spike discharge and tension correlation

in (guinea pig) 127 9P 128 200 oxygen consumption in relation to acti

vity of (guinea pig) 122 111 ovegen consumption measurements in

(T) 119 51P

Plain muscle, potassium movement between surrounding fluid and (guinea pig), 130, 55P, 131, 690

reactions to drugs of nerve free and de nervated (cat and chick), 122 63P

servo regulated ink recorder for, 124, 8P skeletal muscle deficient in calcium simi larity to (frog), 129, 22P

sodium chloride effect on response of, 122, 42P

sodium concentration effect on reactions of (guinea pig) 134 257

spontaneous activity in plexus free in testinal (cat) 119, 382

stretch effect on membrane potentials in (guinea pig) 125, 306

tension and high energy phosphate con tent relation in (guinea pig), 131, 704

Planarium worm, absolute light sensitivity of (Dendrocoelum lacteum) (T), 127, 42P

Plantar response, ischaemia of leg effect on (man) 118, 42P

Plasma, adrenaline and noradrenaline content in (horse), 132, 543

antidiuretic hormone content in (rat), 122, 153

choline concentration in (maminal), 117, 234

delayed, slow contracting effect on plain muscle of (mammal), 129, 30P

investigation of pharmacological activity by two methods in (rabbit) (T), 122 68P

muscle gain of Na and K from (frog) 125 236

saliva incubation effect on (cat), 129, 257

vasoconstrictor activity of (rabbit), 128, 519
vasoconstrictor substances in (rabbit),

122 46P

Plasma adrenaline and noradrenaline, haemorrhagic and anaphylactic shock effect on (dog) 133 49P

Plasma antidiuretic titre internal jugular vein blood giving (man), 117 25P

Plasma calcium parathyroid hormone assay after parathyroideetomy using (rat) 125 383

Plasma choline liver and kidney function in control of concentration of (dog) 120 53

Plasma esterase drugs effect in normal and post heparin plasma on (dog and man) 127 300

hoparm action on activity of (dog.) 123,

303

Plasma histamine estimation in cats of excentration of (T) 125 43P

m-12d for estimation of (T) 117 32P Plasma inositol casar and aqueous

humour relation to (sheep) 131 11P

Plasma pH adrenaline hyperphoea effect ch (man) 124 214

temp-rature effect on relationship be tween blood CO\_tension and (mammal) 127-19P

Plasma phosphate insulin and plasma 22000 concentration effect on (cat) 124 627

Plasma potassium intestinal paralysis ecompanying increase of (dog) 118 lb3

alwarr secre ion of potassium affected b (dog) 132 33

Plasma protein vitamin A combination with (fowl) 116 342

Plasma thromboplastin isolation and Proposes of (man and cow) 132 164 Plasma volume haemorrhage effect on

(man) 129 500

Plateless Arm i

Platelets ATP breakdown during clotting (mammal) 133 51 P

E-tamine release in antigen antibody reas ions from (rabbit) 128 9

Erdroxy-ryp-amine and his-amine uptake bt (dog) 124 300

absorp ion by (man) 129 24P in (man) 130 711

release in antigen antibody reactions from (rabbit) 128 9

Platelet adhesiveness, histamine effect on (rabbit) 126 15P

Plethysmography strain guage measure ment of limb volume changes compared with (man) 121 15

'Pluck' reflex, flexor twitch comparison with (ca.) 123 251

PMS gonadotrophin, dose response curve

Pneumotachograph, for cattle 121 40 P
resoura on air flow and intercostal muscle
account correlation using a new 130
33 P

standard equipment used for volume in egrator and (man) (T) 121 13P

Pneumothorax, intrathoracic pressure

Podophyllotoxin, pregnancy affected by (mammal) 117 65 P

Polar clothing British North Greenland Expedition (T) 124, 16P

Polar environment, sleep wakefulness patterns affected by (man)(T) 129 S2P

Polarization membrane potential spike discharge and tension of taenia coli affected by (guinea pig) 128-212

voltage clamp on giant nerve fibre effecting (Lo'170) 131 361

Polarized transparencies, use of (T) 128 66 P

Polydipsia, osmotic and electrical stimu lation of hypothalamus producing (Film) (T) 129 33 P

Polyethylene glycols histological embedding agents (T) 119 7P

Polymyvan E neuro muscular junction block by (T) 123 2P

Polysynaptic reflex acetylcholine close arterial injection effect on (cat) 119 432

Polyuria anoxie anoxia causing (man) 116 3P

Popliteal lymph node, filtration efficiency of (rabbit) (T) 130 40P

Porphyropsin bleaching effect on (pike and tench) 116 264

carp visual pigment and 125 623 retina containing (tench) 119 405

Portal blood flow reticulo-endothelial

system activity affected by (rat), 128 l Portal vein adrenaline acetylcholine etc action on (dog) 128 417

adrenaline and other drugs action in perfused liver on (mammal) 132 512

bromsulphthalem removal by (dog) 131 21P

hydroxytryptamine effect on outflow from (cat) 118 441

liver blood flow contribution by (rat and rabbit) 118 16P

mito $\cos$  in regenerating hier around (rat), 116 376

Portal venous blood hypotension effect on oxygen saturation of (rat) 126 427

Position receptors statocyst containing (lobster) 130 15

Positive pressure ventilation simple mechanical respirator for (T) 123 29 P

Posterior parietal lobe, effects of lesions in (monkey) 129 49P

Posterior pituitary hormones, myoepi thehal cells affected by (mammal) 130 261

Post-excitatory pause Purkinje cells showing (cat) 133 539

Post-ganglionic axotomy, sympathetic ganglion affected by (cat) 127 603

Postganglionic denervation, sympatho mimetic substances action on nicitiating membrane affected by (cat) 124-31

- Postganglionic nerve section, ganglionic transmission failure after (rabbit), 117, 28 P
- Post-pituitary, antidiuretic, vasopressor and oxytocic hormones in (dog and puppy) 120 141
  - intracellular localization of hormones in (rat) 127, 201
  - lead effect on ADH content of (rat), 119, 16P
  - oxytocic and vasopressor variations in (mammal), 119, 51 P
  - vasopressor and oxytocic activities in normal and adrenalectomized rats of (T), 124 69 P
  - vasopressor and oxytocic activity under various conditions in (mammal), 121 206
- Post-synaptic potentials NM spikes at motoneurone interaction with (cat), 122, 450
- Post-tetanic potentiation, action potentials of sympathetic gaugha during (rabbit) 117 189
  - botulinum toxin action on end plate affected by (guinea pig) 134, 270
  - disuse effect on spinal reflex (cat) 121, 501 heterosynaptic activation of motoneurones
  - during (cat) 128 89 reflex rebound by (cat) 131 32
  - skeletal muscle active state and (frog)
    130 490
- Postural hypotension case of (T) 119
  31P
- Posture bladder pressure affected by (man) 129 448
  - chest and diaphragmatic movements in respiration affected by (man) 124, 201
  - electromy ographic studies of the leg muscles in (T), 117 9P
  - electromy ography of muscles of (man)
    117 484
  - erector spinae muscles activity in changes of (man), 129 186
  - experimental contribution to dynamics of (Film) (T) 129 40P
  - face tissue fluid affected by (man) 130,
  - foot blood flow records in erect (man)
    127 6P
  - forearm blood flow affected by (man) 132 46 P
  - hand blood flow affected by (man) 130, 467
  - high heels effect on electrical activity of leg muscles in (man) 132 465
  - intercostal muscles activity in respiration affected by (man) 129 22

- Posture, pulmonary diffusing capacity affected by (man), 132, 232
  - rectal and oral temperatures affected by (man), 126 349
  - reflexes in man affected by (Film) 130, 31P
  - ronal adjustments to change in (man)
    132 61 P
  - skeletal muscle electrical activity affected by (man), 127, 617
- thigh muscles electromy ographic activity in (man) 126 81
- Potassium action potential of muscle affected by intracellular concentration of (frog), 121, 202
  - action potential relation to clamp' potential affected by extracellular (calf and sheep), 127, 220
  - adrenalectomy effect on excretion of (rat), 126, 47 P
  - adrenaline antagonism to depression of diaphragm by (rat), 125, 225
  - all or none phenomenon affected by (rat)
    123 1P
  - aqueous humour cerebrospinal fluid and plasma (rabbit) 129 113
  - auricle resting and action potentials affected by (cat), 119, 147
  - auricle resting potential affected by (cat)
  - auricular fibrillation induced by electrical stimulation and acetylcholine affected by (H L) 131, 8P
  - axon absorption of (Sepia) 120 46P
  - avotomized ganglia exchange of (rat and rabbit) 121 638
- botulinum toxin effect on response of gut to (mammal) 127, 467
- cardiac action potential affected by (turtle), 132 157
- cardiac and other tissues content of (ox), 118, 276
- cardiac muscle stimulation by (rat) 130 622
- cerebral cortex sections metabolic activity affected by (guinea pig) 117-477
- crustacean muscle fibres resting potential affected by (crab) 120 174
- curarized isolated sympathetic gaughon response affected by (rabbit) 117 205 curarized nerve muscle affected by (rat) 128 623
- cutaneous pain responses to (man) 120 334
- deneration effect on entry rate into muscle of (frog) 123 3P 131 473
- dinitrophenol effect on influx in axon of (Sepia) 128 40

- Potassium, distribution in nerve of (cat), 128, 473
- electroplate membrane potential affected by (electric eel), 119 339
- entry into isolated skeletal muscle of (frog), 125, 237
- errthrocyte and transport of (chucken and tortoise) 125 267
  - content under various conditions of (man) 118 43
  - sodum efflux relation to influx of (man), 134, 281
  - sodium transfer affected by concentration of (tortoise) 132 424
- excretion after ingestion of (man), 128, 47P
- ganghon blocking drugs' action affected by concentration of (cat) 126 106 gastric emptying time affected by test
- meal containing (man) 132 274
- giant nerve fibre impulse affected by (Loligo), 131 346
- heart contracture by (frog), 134 585
- oH T effect on erythrocyte loss of (man), 134, 488
- influx and efflux from giant axon of (Sepia) 128 61
- ionic current through axon membrane of (Loligo) 116, 449
- mtestinal paralysis caused by loss of cellular (dog) 118, 149
- kidney denertation effect on slice trans port of (rabbit) 133 291
- 'Marsh factor' action on muscle fibres affected by (rabbit), 121, 241
- membrane potential affected by (frog), 133, 640
- microinjection into giant axon of (squid) 131, 599
- miniature end plate potentials affected by (rat) 134, 433
- mobility and diffusion coefficient in giant axon of (Sepia) 119, 513
- motoneurone membrane potential affected by injection of (cat) 130, 296 movement between plain muscle and sur rounding fluid of (guinea pig) 131, 690
- neuromuscular transmission affected by (locust) 127, 93 Pacinian corpuscles uptake of (cat), 129,
- 600 perfused nerve reaction to excess of
- (frog) 123 342
- plam muscle and surrounding fluid move ment of (gumea pig) 130 55P purgatives depletion of (T) 130, 36P
- "rubidium distribution comparison with that of (rabbit), 128, 71 P 133 194

- Potassium rumen epithelium permeability to (sheep), 121 453
  - salivary secretion of (cat and dog), 132,
  - skeletal muscle containing merchangeable (frog) 131 20P
    - contraction affected by excess of (rat), 116 303
    - dynamics affected by (frog), 134 197 exchange of (frog) 117 24 P, 117, 278 120, 246, 133 389
  - slow fibre membrane hyperpolarization affected by (frog) 132 594
  - sodium depletion effect on ratio in parotid saliva of Na to (slicep) 131, 516
  - 4sodium separation in biological fluids from 128 68 P
  - sodium transport in erithrocites affected by (man and chicken) 129 488
  - spermatozoa motility affected by (mammal) 120 467
  - staircase' phenomenon and action on heart of (frog) 134, 573
  - Potassium citrate cardine arrest by (dog) 131, 25P
  - Potassium conductance calculation of nerve (Loligo) 117 507
  - Potassium current nerve membrane potential relation to (Loligo) 116, 486
  - Potassium efflux potassium concentration effect on skeletal muscle (frog) 134 507
  - Potassium excretion acidous effect in adult and young on (dog) 124 365
    - alkalosis effect on (dog and man), 121, 35 posterior pituitary hormones effect on (dog) 131 33 P
    - renal rhythm disruption effect on (man) 125, 468
    - 22 hour day effect on pattern of (man), 133 672
  - Preganglionic cervical sympathectomy, aqueous humour lactic acid concentration with ascorbic transfer affected by (rabbit), 128, 5P
  - Preganglionic denervation sympatho mimetic substances action on nicti tating membrane affected by (cat), 124, 31
  - Preganglionic impulses histamine and pilocarpine potentiation of (cat), 127, 35 P
  - Preganglionic volleys, sympathetic ganglion intracellular recording of response to (rabbit), 130 577
  - Pregnancy ACTH effect on (mouse and rabbit) 116 236
    - carbohydrate metabolism in (rabbit), 126, 22P

Pregnancy, cervical mucus viscosity affected by (man), 122, 362

cervix uteri changes in (rat), 131, 19P collagen growth in reproductive tract during (rat), 120, 7P 123, 492

DOCA maintenance after spaying (rat), 125, 59 P

energy exchange during (rat) 134, 652 energy expenditure in (rat), 123 38 P

foetal loss after ovariectomy during (rat), 130, 253

foetal/maternal <sup>131</sup>I ratios in (mammal), 132 367

foetal membranes changes during (rat), 129,78P

foetal membranes collagen and hexos amine contents during (rat), 132, 482 histaminase content of uterus affected by (rat), 119 288

hormones maintenance after ovariectomy of (mouse), 134, 16P

induction of toxaemia of (sheep), 126, 40 P liver collagen affected by (rat) 134, 135 mammary gland collagen content affected by (rat), 132 476

nitrogen balance in (rat), 133, 167
oestrogens and pregnandiol excretion in
last weeks of (man) (T) 116, 10P

ovytoein and vasopressin action on uterus during (cow and sheep) 124 58P

podophyllotoxin effect on (mammal) 117, 65P

spaying effect in (rat) 124 36P spaying effect on foetal loss in (rat), 126, 43P

steroids effect after ovariectomy on (rat)
130 148

sugar tolerance affected by (rabbit) (T) 120 18P, 68P

thyroid activity affected by (rabbit) 131

thyroxine distribution between mother and foetus during (rabbit) 133 181

urine outputs during (rabbit) (T), 127, 42P

uterine collagen distribution during (rat) 132, 492

uterus affected by adrenaline and pitocin during (sheep) 124, 68P

vaginal blood in (rat), 129 26P

water balance in (rat) 125 48P

water metabolism affected by (rat) 134 655

Pregnancy to aemia renal function in (sheep) 131 383

Premature infant, oxygen concentration effect on respiration of 117 38 respiratory rate and volume in 116 168

Premature lambs, viability of (T) 127, 9P, 130, 191

Pressor amines, intracellular granules of adrenal medulla containing (ox), 129, 31

Pressure blindness, electrical phosphene disappearance with (man) 127, 195

Pressure breathing arterial blood pressure changes during (man) 123, 36P

Pressure gradient, calculation of blood flow in artery from (dog), 127, 539, 533

Pressure nerve fibre, size and response of (toad and cat), 117, 134

Pressure-volume changes in femoral

tree, vascular tonus effect on (cat), 130 414

Pre-synaptic polarization, end plate activity affected by (frog) 124 586

Prismatic microscope, new form of (T), 127, 60 P

Procaine, crustacean muscle fibres action potentials affected by (crab), 120 199 differential effects on nerve to soleus on tendon jerk and motor twitch of (T), 126, 11 P

differential nerve narcosis with (eat), 131 30 P

duodenal pacemaking area located by (dog) 132, 109

Pacinian corpuscle action potential affected by 133, 62

Pacinian corpuscle receptor potential affected by (cat), 122 618

tracheobronchial receptors affected by (cat) 123 95

Progesterone, insulin and oestrone interaction on isolated uterus with (rat), 128 113

oestrogen antagonism in uterus to (rabbit) 116 246

oestrogen local antagonism to (mouse and rabbit) 124 39 P

potassium gradient and uterine tension affected by (rabbit) 133 153

thyroid gland activity affected by (rabbit) 127 391

uterine excitability length tension relation and kinetics affected by (rabbit)
126 384

uterine response in vivo to stimulation affected by (rabbit), 129 298

Progressive retinal atrophy electro retinogram affected by (dog) 120, 34

Pro-oestrogens uterine response to progesterone affected by (rabbit) 116 253

Propamidine, ileum movements affected by (guinea pig) 124 226

skin histamine release by (rat) 120 556

- Propionic acid, rumen absorption of (thosp) 122 103
- Propionylcholine, spleen containing (ox)
  121 62
- Proprioception, motor cortical responses man affected by (monkey) 122 371
- Proprioceptive endings medial ligament of knee joint containing (mammal) 123 241
- Proprioceptors, cerebellar control of (cat)
  123 46 P
  - emzlorus containing (rat) 126 511
- knee joint containing (cat) 122, 38
- tengra intrinsic muscles containing (man and monkey) 122 193
- Propriene giveol, behaviour affected by mjection into cerebral ventricle of (cat), 125 492
- Prostigmine, acetylcholine effect on motor end plate affected by (frog) 128 168
- ATP capillary dilator action affected by (rabbit) 126 131
- curarized isolated sympathetic ganglion response affected by (rabbit), 117-202
- end plate potential affected by (cat) 132
- ministure end plate potentials affected by (cat) 132, 65 (frog) 132 643 (rat) 132 651
- resing muscle end plate potentials affec ed by (frog), 117-115
- Protamine, heparin action on plasma exercise activity affected by (dog) 123
- Protamine sulphate hipoprotein migra tion affected by (rabbit) 127 230
- Protanope accommodation reflex in (man)
  121 577
- Protanopia, bright light producing artificial (man) 122 341
- Proteins electrophoresis on filter paper separation of (T) 121 41 P
  - vasoprescun binding by (rat), 132 202
  - Young requirement in mixed diet of (cat)
    129, 78 P
- Protein-deficiency deuterium oxide space affected by (rat) 131 377
- Proto chemical reactions glass electrode in, 121, 6P
- Pseudocholinesterase brain potentials control by (cat), 129 46P
- secretions and organs containing (pig and piglet) 122 188
- P substance, assay of 5-hydroxytryptamine and (gumea pig), 119, 357
- Psychic stimulation, Heidenham pouch secretions resulting from (dog) 120

- Puberty adult physique in men and age at (man) 127 17P
- Pulfrich effect, simple apparatus for mea surement of 124 2P
- Pulmonary arterial flow, ductus arterio sus occlusion in newborn effect on (sheep) 128 371
- Pulmonary arterial pressure carotid smus baroceptor stimulation effect on (dog) 131 220
  - left auricular pressure variations effect on (cat) 123 44P
  - left auricular pressure variations affecting (cat) 133 277
- Pulmonary arterio-venous shunts artificial ductus arteriosus and (dog) 130 167
- Pulmonary blood flow, ventilation in foetus effect on (sheep) 130 198
  - ventilation in new born effect on (sheep) 118 45P
- Pulmonary blood vessels site of action of anoxia on (cat) 125 373
- Pulmonary circulation hydroxytrypt amine action on (cat) 118 437
  - ventilation effect in foctus on (lamb) 118
- Pulmonary circulation time, senal mea surements of cardiac output blood volume and (cat) 132 5P
- Pulmonary diffusing capacity normal subjects (man) 129 237
  - posture effect on (man) 132 232
- Pulmonary inflation phrenic moto neurone activity resulting from (cat) 123 106
- Pulmonary inflation receptors types of (cat) 123 72
- Pulmonary lobar blood flow, method for continuous measurement of (dog) (T), 132 23P
- Pulmonary oedema neurohaemo dynamics of (dog and rabbit) 117 38P
- Pulmonary stretch fibres conduction velocity of (cat) 121 346
- Pulmonary stretch receptors localiza tion of (cat) 122 26P, 125 336
- Pulmonary ragal receptors, phenyl diguanide and veratrine action on (cat) 121 183
- Pulmonary vasomotor responses, acid base balance effect on (dog) 125 40 P
  - anoxia in isolated perfused lung effect on (cat) 117 303
- Pulmonary vascular receptors location of (cat) 120 597

- Pulmonary vascular resistance, left auricular pressure variations affecting (cat) 133, 278
  - ventilation effect in new born on (sheep), 121 146
- Pulmonary ventilation, abdominal muscles electromy ographic activity in increase of (man), 120 411
  - alveolar carbon dioxide tension in rest and exercise relation to (man) 125, 94
  - climbing with loads at low altitude effect on (man), 128, 301
  - index of energy expenditure during field surveys by (man), 128 46P
  - intercostal muscles activity affected by (man), 129 14
  - oxygen administration in exercise effect on (man), 125 123
- Pulsatile pressure, blood flow in artery relation to (dog) 127, 533
- Pulse counting, portable ecg pre amplifier for 129, 4P
- Pulse-interval-plotter, 134, 50
- Pulse rate acclimatization to heat effect on (man), 132 563
  - age affecting response to hot environment of (man), 133 123
  - hypothalamic lesions effect on (cat) 131,
  - repeated exposure to heat effect on (man), 125 15
  - water and salt intake in work in hot en vironment effect on (man), 127, 14
- Pulse-wave velocity counter chronometer method for recording 129, 27 P
- Pupil, colour matching affected by bright light through periphery of (man), 122, 337
  - trigeminal nerve antidromic stimulation effect on (rabbit), 123 45P
- Pupil size, in light sensitivity affected by (frog), 132, 263
- Purkinje cells, excitatory and inhibitory process acting on cerebellar (cat) 133, 520
- Purkinje fibre, action potential relation to 'clamp' potential in (calf and sheep) 127, 215
  - calcium ions and local anaesthotics effect on electrical properties of (calf and sheep) 129, 568
  - electrical constants of (kid) 118 348
- Purkinje-Sanson image, accommodation reflex by measurement of size of third (man) 123 357
- Pursuitmeter, energy expenditure with attainment of skill with (man) 120 42P

- Pyloric antrectomy, Heidenhain pouch secretory response to central vagal stimulation affected by (dog) 123, 168
- Pyloric gastric pouch Castle's intrinsic factor obtained from (pig), 121, 3P
- Pyloric hormone, release of (dog) 130
- Pyramidal fibres, paraffin silver method in study of degenerating 118, 51P
- Pyramidal neurones, action potentials in hippocampus of (rabbit), 129 608
- Pyramidal tract, ascending fibres within region of (T), 123, 30 P
  - origin of (cat), 124 385
- Pyrazolethylamine, histamine inhibitors action on (guinea pig), 123 48
- Pyridine, olfactory membrane reversible adsorption of (sheep), 130, 551
- Pyridoxin deficiency histamine concentration in tissues affected by (rat), 131
- Pyridylethylamine, histaminase inhibitors action on (guinea pig), 123, 48
- Pyrogen, sympathetic innervation in vaso constriction in ear caused by (rabbit), 126 319
- Pyruvate o'idase system, brain containing (pigeon), 119, 421
- Quaternary ammonium ions nerve fibres affected by (crab), 122, 588
- Quinidine, isolated auricle refractors period affected by (guinea pig and rabbit) 132, 623
  - skeletal muscle contraction affected by (cat and frog), 129, 412
- Quinine esterase in normal and post heparin plasma affected by (dog and man) 127, 302
  - ribonucleic acid histochemical dephos phorylation affected by (rat and rabbit) 120 20
  - skeletal muscle affected by (cat) 128
  - skeletal muscle contraction affected by (cat and frog) 129 412
- Rabbitear vessels vasoconstructor activity of blood and plasma test on 128, v12
- Radial potentials cerebral cortex (unan aesthetized isolated) showing (cat) 125 437
- Radiant heat simple measures for control of intense (T) 127 60P
- Radiant heat exchange, hand blood flow affected by rapid body environment (man), 131, 29 P

Radioactive  $B_{12}$  absorption in normal and gastrectomized rats of, 129, 50P

Radioactive carbon Van Slyke method for counting (T), 118 51 P

Radioactive isotope labelled organic compounds, equipment for synthesis and assay of (T) 119 31 P

Radioactive isotopes assav in blood of two 120, 19P

y-active equipment for study in small animals of 118 18P

Radioactive iodide foetal/maternal distribution of (mammal) 132 367

salivary gland concentration of (mammal)
134 189

thyroid uptake of (rabbit), 120, 278, 127 328

Radioactive P nervous tissue penetration by (rabbit) 116, 24P 117 6P

red cell volume measurement by use of (man) 123 22

Radioactive potassium distribution in body of (man) 116 51P

ervthrocyte and flux of (mammal) 129
464

membrane current in giant axon and movement of (Sepia) 121 403

scintillation, counter for 116 44P skeletal muscle exchanges studied by use of (frog), 117 278

sympathetic ganglia exchange of (mammal) 121 631

Radioactive silver iodide movement of solid particles up respiratory tract measurement by use of (T), 132 53P

Radioactive sodium ervthrocyte and transfer of (man and chicken) 129 476

microinjection into giant axon of (squid)
131 603

nervous tissues penetration rate by (rabbit) 117 6P

sympathetic ganglia exchange of (mammal) 121 633

Radioactive sugars placental transfer of (monkey) 132 297

Radioactive thyroxine metabolism of (rabbit) 127 341

Radiobiological research fifteen million volt linear accelerator for (T) 127, 30 P

Radiometer, surface temperature measure ment by 121 28 P

Radius hypervitaminosis A effect on in vitro growth of (mouse) 116 336 Rahere rabbits (T) 127 29P

Rainbow trout visual pigments in, 129 60 P 134 621

Ravnaud's disease sympathectomy effect on response of skin vessels to adrenaline in (man) 117-417

Reaction time heat transfer rate to skin effect on (man) 126 219

stimulus variation relation to (man) 123

Reaction-time meter (T) 128 69P

Reactive hyperaemia blood flow mea

intravascular pressure and (man), 127 14P

venous overgen saturation and blood flow in forearm during (man) 134 195

Reanimation simple method for (mouse and rat) 132, 406

Receptor discharges microelectrode re cording in spinal cord of (cat) 130, 640

Receptor potential Pacinian corpuscle showing (cat) 122 610

Reciprocal innervation hypothalamic, sympathetic and parasympathetic centres showing (cat) 131 411 spinal interneurones showing (cat), 131 429

Rectal and carotid blood temperatures (calf) (T) 123 50P

Rectal temperature acclimatization to heat effect on (man) 132 563 factors affecting (man) 126 347

sweating decline with rise in (man) 129 8P

Rectum sphincter an externus tone affected by digital examination of (man) 122 605

Red light colour of (man), 130, 35

Red muscle decamethonium action on (cat), 124 418

Red receptors spectral sensitivity curve of (man) (T), 117, 58 P

Redox pump theory, further evidence for, (T) 125, 66P

Reflex, high speed cinematography analysis of (man), 130 4P

Reflex activity afferent activity relation to (cat) 122 305

disuse effect on (cat), 121, 494

dorsal and ventral root potentials relation to (various) 116 380

finger tremor frequency and (man) 134,

Reflex rebound, post tetanic potentiation effecting (cat) 131 32

Reflex vasodilatation sympathectomy effect on nervous (man) 119 18

Refractive errors instrument for mea suring 134, 4P

- Refractive index, measurement in living cell of, 118, 38 P
- Refractory period, causes in nerve of (Loligo), 117, 532
  - isolated auricle (guinea pig and rabbit), 132 610
  - optic nerve fibre groups showing (cat), 121 420
  - sensory synapses in lateral geniculate nucleus showing (cat), 134, 538
- Regenerating liver, adrenalectomy effect on amino acids in (rat), 124 443
- Renal circulation angiographic studies of renin effect on (rabbit) 124, 106

  Renal blood content, aggregation (rabbit)
- Renal blood content, ago effect on (rabbit), 132 13P
- Renal clearances toxaemia of pregnancy effect on (sheep), 127, 54P
- Renal diurnal rhythm acid and electro lyte outputs relationship in (T), 117 79 P
- Renal excretion durnal rhythm (in 12 hr eyele of activity) of (man) 117, 22
- Renal excretory rhythms reappearance after forced disruption of (man), 121 14P, 125 466
- Renal function, birth effect on (man) 118, 61P
  - cold infusion effect on (dog) 117 29 P diet effect in new born on (pig) 133
  - exercise effect in hot humid environment on (man) 118 26P
  - extracellular volume depletion effect on (dog) 116, 307
  - hot humid environment effect on (man) 118 25P
  - pregnancy toxaemia effect on (sheep)
    131 383
- Renal interstitial pressure measurement of, 117 20P
- Renal vasoconstriction ether and cyclo propane causing (dog) 118 140
- Renal venous blood vasoconstrictor activity of (rabbit) 128 517
- Renal vessels hydroxytryptamine effect on (cat), 118 442
- Renin, renal circulation (angiographic study) affected by (rabbit) 124 106
- Renshaw cells drugs action on activity of (cat) 131 154
  - inhibitory post synaptic potential of motoneurone mediated by (cat) 126 533
- Repolarization time constants in cerebral cortex of (cat) 127 179
- Reproduction cat as laborators animal for study of 130 47P

- Reproductive tract, collagen content during pregnancy and lactation (rat), 123 492
- Reserpin effects of ritalin and (monkey), (Film) 133, 1P
- Resonators elementary teaching model of (T), 125, 14P
- Respiration abdominal muscles activity affected by (man), 127, 423
  - abdominal muscles electromy ogram during (man), 117, 222
  - abdominal muscles role in, 116 49P
  - adrenaline and noradrenaline action on (man), 119, 9P
  - adrenaline infusion into vertebral artery effect on (man) 125 62P
  - anticholinesterase effect on (rabbit), 126, 52 aortic and carotid sinus nerves stimula
  - tion at varied intensity and frequency effect on (cat) 132, 174
  - atrial receptors response during (cat) 120 602
  - body temperature effect on (man) 125, 19P
  - carbon dioxide effect in hypoxia on (infant), 122, 29 P
    - in infants on (man) 122, 264
    - in premature and full term infant on (man), 119 IIP
  - chest and diaphragmatic movements in (man) 124 199
  - hydroxytryptamine stimulation of (dog) 120, 311
  - hypothermia and carbon dioxide control of (dog) 127 380
  - intercostal muscles action in (man), 129
  - intra abdominal pressure and abdominal muscle activity affected by variations in (man) 122 282
- laryngeal muscle activity in (cat), 129
  134, (rat) 130, 475
- oxygen concentration effect on premature infants 117 38
- ovygen inhalation effect in normal and congenital heart disease on (man) 127,
- pressure volume diagram recorder for (man) 124 6P
- raised body temperature effect on (man), 131 14 P
- reanimation after hypothermia effect on (rat) 128 457
- respiratory pattern reproduction in estimation of effects of changes in (man) 119 9P
- serotonin effect on (dog), 117 71P

- Respiration shivering reflex from (pig) 120 115
- skela al muscle metabolism effect on (dog) 127 30P
- sprometry, electromyography and intra garne pressure recording of mechanics of (T) 119 31P
- successed effect on (cat) 122 30P
- thermal stress effect on (calf), 130 16P tracheobronchial receptors in (cat) 123 71
- ventilation hindrance components affected by frequency of (cat) 131 396 Respiration apparatus (T) 129 3P
- Respiration calorimeter farm animals 121 39P
  - modification of (rat) 127 481
- Respiration inhibitors cation transport m evithrocytes affected by (chicken) 125 266
- Respiration rate ovvgen concentration effec on premature infant s 117 41
- premature infant (man) 116 168 Respirator Beaver Byford (man) 130
- Respiratory acidosis, renal response to (man) 122 SI Respiratory afferent fibres conduction
- relocity in vagus nerve of (car) 121
- Respiratory air temperature and bumi dirv of (man) 122 51 P
- Respirator valkalosis extrarenal buffering of seme (man) 132 63P
- Respiratory amplifier automatic 116 41 P
- Respiratory anemometer light weight 127 25P
- Respiratory centre anomy depression in naw born of (man) 125 628
  - chemorerep ors m (car) 117 30P
- diffusion respiration effect on extitute of (cat and doz) 133 367
- reflex acrivers of (car) 117 9
- 2,02 bo.ed. 118 222 m (cs. 1 118 222 TEPP act on on (ca+) 116 20%
- vasomotor regions in medicia relation to
- (ensep) 126 86 Respiratory changes during fall in
- \*emperature (T) 131 29P
- Respiratory dead space single-breath technique in measurement of imail 134, 635 Respiratory
- enzymes E teasellular trapples of adversal medalls or manually (ox) 129 42
- Respiratory exchanges measure nest en Mount Ereser of 123 25P

- Respiratory gases automatic analysis of (T) 122 68P
- Respiratory gas mixtures rapid and accurate preparation of (T), 118 51P
- Respiratory mechanics principles of (Film) 131 1P
- Respiratory movements internal main mary arterial blood flow affected by (dog) 121 85
- Respiratory quotient climbing at low altitudes with loads effect on (man) 128 299
- Respiratory reflexes lung inflation ex citing (cat) 123 105
  - nerve paths of (ent) 123 58
- Respirators rhythm oxygen concentra tion effect on premature infant's 117
- Respiratory system adaptation to changes in volume of relaxed (man) 134 14P
- Respiratory valve light weight, 124 5P low resistance and low dead space 124 4 P
  - modified Cormack, 133 32P
- Resting muscle membrane inhibitors nerve impulses effect on (crab) 121
- Resting potential calcium deficiency effect on skeletal muscle (frog) 133 103
- cortical neurones showing (cat) 130 102 Reticular formation extraocular muscle stretch effect on (cat), 128 190
- rumination control by (sheep) 128 588
- Reticulo-endothelial system, iron pre parations action on (mammal) 117. 32P
  - portal blood flow effect on activity of (ra-) 128 1
- Reticulocytes foetal age relation to number of (Eh +p) 127 50
- Reticulocyte count, haemorrhage effect on (man) 129 559
- Reticulo-rumen, acid inhibition of con tramions of (sheep) 133 76P
  - resdulla oblongata stimulation effect on (sho-p) 128 579
- Reticulo-ruminal movements thema effect on (sheep and goat) 131 2-9
- Reticulum, adrenalme and other humoral agents artion on (sheep) 125 479
  - mhibition of reflex contractions of (sheep and goat) 125 25P of mammal) 122,
- 32PRetina (equirel) (T) 125 15P
- absorption spectra of extracts of (Xenopus) 125 23

(cat) 118 395

122, 524

spectral sensitivity of elements in (pigeon).

spectral sensitivity of pure cone (squirrel),

Stiles Crawford effect in (frog), 132 37P

127 529, (souslik) 130 225

```
Retina, absorption spectrum of extract of
                                              Retina, structure of (squirrel) 127, 594
    partially bleached (bleak), 127, 9P
                                                struchnine spike relation to specific
  action potentials from (frog), 119 58
                                                   response in visual cortex to light stimu
  bleaching of photosensitive substance in
                                                   lation of (cat), 129 305
    (Xenopus), 131, 6P
                                                succinic dehydrogenase in visual cells of
  centrifugal spikes in (rabbit), 129, 12P
                                                   (various), 119, 38P
  choline acetylase in (mammal), 134, 724
                                                summation and inhibition in (frog) 119,
  cholinesterase distribution in (various).
    120, 435
                                                visual pigments in (tench), 116 257.
  cytological and histochemical observa
                                                   (bleak), 128, 131, (Yenopus), 134, 327,
    tions on (T), 117, 44P
                                                   (Rambow trout) 134 621
 electrical changes on light stimulation of
                                                visual purple new forms in (marine
    dark adapted (dog and rabbit) 120, 30
                                                  fishes), 119, 400
 electrical excitation of (man), 127, 194
                                              Retinal
                                                         ischaemia,
                                                                       electroretinogram
 electrical resistance of (frog), 134, 343
                                                  affected by (rabbit), 133, 266
 electrophysiological method for localiza
                                              Retinal pigments, chromatic bleaching and
    tion of function in (rabbit) (T), 117,
                                                   (guinea pig), 127, 576
    64P
                                                Haidinger effect and (man) 124, 543
 electroretinogram affected by area illumi
                                                reflected and transmitted light study of
    nated of (frog), 134 353
                                                  (rat) 133, 55P
 functional stability of (Xenopus) 117
                                              Retinal sensitivity, green coloured rods
    55P, (man), 123, 432
                                                  and (Xenopus), 116 33P
 illumination effect on micro electrode
                                              Retinene visual cells formation of (frog)
   recording from (frog) 134 360
                                                  123 393
 light adaptation effect on size of receptive
                                              Reynolds number arterial flow and (dog),
   fields in (rabbit) (T) 120 \text{ } 6P
                                                  128, 629
        reflexion
                  from
                           periphery
                                                lammar flow in veins and (mammal), 124,
   macula of (man), 116 353
 localization of function in (rabbit), 119
                                              Rhodopsin, absorption spectrum in solu
                                                  tion and in intact rods, 129, 60P
 new visual pigment found in (bleak) 117
                                                density in rod of (man) 134, 30
   57P
                                                difference spectrum and photosensitivity
                                                  in living eye of (man), 134, 11
 partial
          bleaching experiments
                                    under
                                               measurement in decerebrate albino of
   anaesthesia of (guinea pig) (T) 126
                                                  (rabbit) 120 61 P
 peripheral colour vision in (man) 119-170
                                                  in eye of (man), 126, 30P
 photochemical reactions in (cat), 122, 322
                                                  in living eye of (man) 130 131
                                               photochemical bleaching in situ of (man),
 photosensitive pigment in (carp) 125 607
 projection on superior colliculus of (T),
                                                  123 439
                                               quantum efficiency of bleaching in vitro of
   118 5P
                                                  (rabbit) 129 22P
 regeneration in (cat), 122 11P
 representation on optic lobe and superior
                                               sensitivity
                                                           in situ of (rabbit)
   colliculus of (various) 121 44P
                                                  37P
                                               two fast reactions of (T), 129 40P
 rhodopsin distribution in living (man)
   130 141
                                             Rhythmic processes
                                                                       visual aid
                                               demonstration of 128, 66P
 scotopic A wave in electrical response of
                                             Riboflavin theamin interrelationship with
   (man), 118 289
 size of field effect on rate of dark adapta
                                                 (rat) 116 23P
                                             Ribonucleic acid quinine effect on histo
   tion in (man), 125 418
                                                 chemical dephosphorylation of (rat
 spectral density
                    difference curve for
                                                 and rabbit) 120, 20
   (frog), 127 84
                                             Right atrial pressure, Bambridge reflex
 spectral sensitivity curve of dark adapted
                                                 and (dog) 130, 692
```

on pressure in (cat) 118 438 Right cardiac vagal afferents cardio vascular and respiratory reflex responses to stimulation of (T), 130, 30P

Right auricle, hydroxytryptamine effect

- Rigor mortis, chemical changes in time course of (horse) 121, 277
- Ringer Barkan fluid muscle gam of Na and Cl from (frog), 125 236
- Ringer Conway fluid muscle gain of Na and Cl from (frog) 125, 236
- Ringer fluid muscle gain of Na and Cl from (frog) 125, 236
- R membrane, electrical resistance of (frog), 134, 345
- Rod rhodopsin density in (man) 134, 30 narrow band pigment in (frog), 123 407 pigment difference spectrum in (frog), 123 381
  - photopigment spectral absorption in single (*Venopus*), 130 533
  - photosensitive pigments in pink and green (frog) 127, 81
  - quanta absorbed by (man) 123 430
- retinal sensitivity and green coloured (Xenopus), 116, 33 P
- thresholds for cones and (man), 123 12P Roller pump long continued continuous infusion by 128, 29P
- Rotameter blood flow measurement by modified recording 125, 9P
- Rotating chair new type of 123 22 P Rotational nystagmus repeated stimu lation effect on (rabbit) 124 130
- <sup>4</sup>Rubidium, <sup>4</sup>potassium distribution in body comparison with that of (rabbit) 128 71 P
- potassium distribution in body compared with that of (man and rabbit) 133 194 Ruffini endings, knee joint stretch recep tors and (cat) 122.55
- Rumen acetylcholine and other humoral agents action on (sheep) 125 476
  - contents and adrenalme influence on blood supply of (sheep) 133 76 P
  - electrolytes movement across epithelium of (sheep) 121, 452
  - fatty acids absorption from (sheep) 122,
  - histology of epithelium of (sheep) 128, 25P
  - \agotomy effect on motility of (sheep),
- Rumen epithelium, forces moving Cl ions through (sheep), 125 26 P
- sodium ion movement through (sheep),
- Rumination abomasal digesta flow into duodenum affected by (sheep) 116 92 nerve centres in medulla associated with (sheep), 128 577
- Russell's viper venom blood coagulation affected by (man) 122 558

- Sach's organ, resting and action potentials in (electric eel), 119, 328
- Saliva, leucocytes in (man) 121 12P plasma proteins secreted in (T), 133, 54P potassium secretion into (cat and dog), 132 20
- vasodilator action of (cat), 129, 255 Salivary amylase diet effect on (man)
- 119 153
- Salivary gland bradykinin and functional vasodilatation in (cat), 134, 471
  - functional hyperaemia and bradykinin formation in (cat), 130, 43P
  - heat exposure effect on activity of (mouse), 128, 49P
  - mechanism of functional hyperaemia in (cat), 129, 253
  - radio iodide and 2-S thiocyanate concentration by (mammal) 134, 189
  - secretory potentials in (cat) 124, 25P stimulation effect on Na and K contents of (dog) 132, 27
  - thyroid hormone distribution affected by (rat) 133 603
  - vasodilator substance produced during activity of (cat) 128, 243
- Salivary secretion potassium concentra tion affected by rate of (cat and dog), 132 22
  - reflex stimulation of (sheep), 131, 27
- Salivary secretion pressure parotid gland blood supply affected by (sheep) 131 28
- Salt maximum urmary concentration of (marsupial) 127, 3
- Salt excretion, diuresis effect on (man), 116 8P
- Salt intake work in hot environment affected by (man), 127, 11
- Saltatory conduction, nerve showing (frog), 118, 107
  - <sup>21</sup>sodium exchange rate and (cat) 128, 499
- Sarcoma RD<sub>3</sub>, fluorescent antibody technique demonstration of antigenic structure of (T), 128 63 P
- Sarcomere activation of single, 130, 49 P Sarin, circulatory effects of (dog) 133, 478
- respiration affected by (rabbit), 126, 52 Scanning hypothesis visual reaction time and a rhythm in (man) 118, 500
- Sciatic gastrocnemius preparation (frog) (Film) (T), 120 45P
- Sciatic-ilio-fibularis, drugs action on fibres innervated by large or small dia meter motor nerves studied in (frog) (T), 123 2P

- Sciatic nerve, histamine release by 48/80 from perfused (cat), 133, 63P
- Scotopic A-wave, electrical response of retina showing (man) 118, 289
- Scotopic 'blue shift', flicker resonance causing (cat) 122, 386
- Scotopic luminosity curve, theoretical mterpretation of, 130 45
- Scotopic pigment, measurement in living eye of (man) 130 131
- Scotopic sensitivity tapetal reflexion cor rection in (cat), 119, 39
  Scotopic vision spectral sensitivity curve
- of (cat), 118, 395
  Sebum squalene and other hydrocarbons
- in (man), 127, 36P Secretin, assay method for (rabbit), 118,
  - biological assay of (T) 133 1P
  - hypophysectomy effect on intestinal content of (rat) 118, 191 119, 266
- Self-filling electronically controlled syringe delivering a set quantity of fluid at variable intervals of time (T), 124 53P
- Semen scrotal insulation effect on (ram), 128 22P
- Semen metabolism apparatus for study of 122, 1 P
- Semicarbazide histamine action potentia tion by (guinea pig), 123, 35
- Semicircular canals, galvanic polariza tion effect on impulse discharge from (ray), 127 106
  - mechanical analysis of responses from (ray), 117 329
- Semi-microrespirometer (T), 132 32P Sensitization, factors concerned in (guinea pig), 129 564
- Sensorimotor cortex thalamus relation to, 118, 43 P
- Sensory cortex extracellular single unit recording in (cat) (T) 129 7P
  - tubocurarine (intraventricular) effect on electrical activity of (cat) 132 135
- Sensory end-organ histological structure and physiological response of knee joint (cat) 124 478
  - spontaneous fluctuations in excitability of (frog) 122 409
- Sensory fibres, microelectrode measure ment in spinal cord of potentials in (cat) 130 636
  - relative excitability and conduction velocity in motor and (man) 131, 436
- Sensory impulses delay and blockage in dorsal root ganglion of (frog) 127 252

- Sensory nerve, acetylcholine effect on (cat), 119, 118
  - muscle spindle discharge affected by electrotonus of (frog), 127, 636
  - selective depressive action of temperature on (T), 123, 66P
- Sensory nerve endings, ATP as trans mitter at 119, 50 P
- Sensory nerve stimulation, abdominal muscles reflex activity to (cat and rabbit), 118 200
  - direct current effect interaction with (frog) 120, 573
- spinal interneurones response to (cnt) 131, 425
- Sensory neuronal responses, thalamus stimulation facilitatory effect on (cat) 131, 115
- Sensory receptors statocyst containing (lobster) 130 9
- Serotonin See Hydroxytryptamine Serum cutaneous pain responses to
  - (man), 120, 341 hydroxytryptamine in (man) 130 713
  - pain producing substance in (man) 117, 4P
  - sensitization by horse (guinea pig), 129, 504
- Serum lipoprotein tissue extracts and clearing factor effect on electrophoretic migration of (mammal) 134, 102
- Serum protein urine protein and selective ultrafiltration of 134, 1P
- Serum protein-bound iodine, determination of, 128 61P
- Sex, adrenal gland structure variation with (cat) 118 569
  - finger tapping rates affected by (man), 122, 583
- finger tremor frequency affected by (man), 134 603
- Sexual activity, adrenal cortex structure affected by (cat) 118 567
- 'Sham feeding' gastric response to pectin meal (man) 119 259
  - Heidenhain pouch secretion resulting from (dog) 120 395
- Shivering respiration relation to (T) 118
  62 P
- respiratory reflex form of (pig) 120-115 Sickle-cell anaemia sodium transport in erythrocytes in (man) 129-504
- Sickling rates, maintenance in similar populations of different (man) 133 15P
- Siderosis from exerction in (mou e) 119, 40P
  - liver histological changes in (mammal) 118 56P

- Silver silver chloride electrodes, modifications in, 120, 38 P
- Silver stain degenerating axons and terminal branches in CNS (T) 133,  $3 \circ P$
- Single afferent units, conduction velocity determination in (T), 118, 5P
- Single breath technique assessment of ventilatory efficiency by (man) 134 631
- Single muscle fibres, diffraction spectra measurements on (T) 117 53P
  - tension produced by (T) 133 27P
- Single nerve fibre excitability in nerve trunk of (frog), 117-87
- Sinus arrhythmia Bainbridge reflex de pendence on (dog), 130, 687
- Sinus nerve non medullated afferents in (rabbit) 131, 35P
- Sinus venosus acetylcholine action on potassium movements in (frog and tortoise) 133 58 P
- vagal effects on (frog) 129 48P Six channel cathode-ray recording
- apparatus (T) 116, 3P
  Skeletal muscle acetylcholme receptors
- localization in (frog), 128 157
  acetylcholine release from (cat) 131 488
- active state affected by quinine in (frog), 129, 416
- active state duration in twitch of (frog) 124 292
- activity plateau duration in (frog), 124  $60_0$
- adrenaline action on blood flow after nerve block of (man), 118 576
- adrenaline action on different types of (cat) 128, 14P
- afferent and efferent nerve fibres to (toad and cat) 117 152
- afferent fibres from (cat) 122 462
- anoxia and NaCl effect on (rat) 116 30 P autogenetic inhibitors impulses from (man) 128 20 P
- autolysis at 0° C of ground (rabbit and guinea pig) 130 430
- blood flow arterio venous oxygen difference and oxygen uptake relationship in (man) 130 42 P
- calcium deficiency effect on (frog) 133,
- calcium intracellularly applied effect on 128 12P
- Ca lack effect on rate of loss of 45Ca from (frog) 130 23P
- carbon dioxide effect on (rat) 119, 16P cerebellar control of  $\alpha$  and  $\gamma$  efferents to (cat) 130 213

- Skeletal muscle, cholinesterase content affected by denervation of (guinea pig), 116 158
  - class experiment for determining tension length relationships of (frog), (T), 132 5P
  - closed loop hypothesis tested on (man) 127, 23P
  - coefficient of expansion of (T) 117, 61 P coefficient of thermal expansion of (frog) 119, 369
  - conduction velocity affected by change in length of (frog) 125, 215
  - contraction effect on oxygen saturation of effluent blood from (man), 127 13P
  - denervated electrical properties of (frog), 123 2P 131 1
  - denervation effect on entry of potassium into (frog) 131, 473
  - diet effect on glucose and acctate meta bolism in (rat) 123, 534
  - dimitrophenol action on (rat) 124, 37P, 130 585
  - electrical activity affected by intra cellular sodium concentration in (frog), 121 191
  - electrical activity in isotonic contractions of (man), 120 40P
  - electrical properties of membrane of slow (frog) 132 586
  - end plate potentials in resting (frog), 117, 109
  - extracellular space of (rat), 122 74P fatigue effect on electrical activity of
  - (man) (T) 132 21 P
    femoral artery dilatation with hyper
  - aemia after contraction of leg (cat), 131 31 P
  - force and integrated electrical activity relation in (man) 132 676
  - force velocity relation from two isometric contractions of (frog), 122 172
  - force velocity of shortening relation in (rat), 123 633
  - force velocity and integrated electrical activity relation in (man) 123, 214
  - forced lengthening during contraction of (frog) 126 19P
  - $\gamma$  fibre activity affected by stretch of (cat) 122 510
  - glucose concentration effect on end plate potential in (rat) 120 612
  - growth hormone effect on glucose utilization by (rat) 123 57P
  - growth hormone hypertrophy effect on performance of (rat) 116, 129
  - histamine content and 48/80 effect on (cat) 121, 525

Skeletal muscle, histamine release by 48/80 in (rat), 120, 558

mexchangeable Na and K in (frog), 131, 20P

innervation of fast and slow fibres of (frog) 121, 295

interaction between fibres in a twitch (cat and man), 124, 311

Interference contrast microscopy in study of living fibres of, 127, 27P

integrated electrical activity relation to force and velocity of (man) 123 214 internal and external potassium concentration effect on membrane potential of

(frog) 133, 631 mulin space affected by stimulation of (rat), 127 525

ionophoresis along (frog), 124 248

isometric tension relation to integrated action potentials in (man) 117 492

length change effect on conduction velocity in (frog), 124, 22 P

longitudinal and transverse stimulation effects on (frog) 125 398

'Marsh' factor effect on relaxation of fibres of (rabbit) 121 232

maximal tetanus and voluntary con traction of (man) 123 553

mechanism of my ogenic rhythm in insect (cicada), 124 269

membrane potential and spontaneous activity in calcium deficient (frog), 132

miniature end plate potentials in isolated (cat) 128 30P

multiple innervation of individual fibres of (cat and frog) 126 293

negative work cost of (man) 117 380

neuromuscular facilitation by stretching of (frog) 131 18P

neuromuscular junction changes fol lowing disuse atrophy in red and white (cat), 124 429

nicotine effects on blood vessels of (cat)
123 289

nitrate effect on active state of (frog) 126, 155

nitrate effect on electrotonic potential of (T), 132, 32P

noradrenaline effect on blood flow in (cat) 117, 12P 120 105

optical properties of resting (frog) 119 489 ox gen consumption measurement in vivo of (man), 128 208

oxygen consumption of (man) 123 34P phosphate liberation from (frog) 122 369 phosphorus transfer rate into and out of (rat) 132 10

Skeletal muscle plain muscle similarity to calcium deficient (frog), 129 22P plasticity in (various), 117, 77

post contraction hyperaemia mechanism in (cat) 120, 230

posture effect on electrical activity of (man), 127, 617

potassium action on dynamics of (frog), 134 497

potassium content affected by stimula tion of (rat), 122, 74P

potassium exchange between surrounding fluid and (T), 117, 25P

potassium exchange in (frog), 117, 24P, 117, 278, 120, 246

potential of (T), 129 39P

potassium sulphate action on excitability of (frog) 128, 398

previous stimulation effect on active state of (frog) 130, 488

quinine action on (cat), 128, 17P

red and white differentiation based on responses to neuromuscular blocking agents on (cat), 120, 47 P

reflex activity affected by disuse of (cat)
121 494

regional distribution of sodium in (frog) 125, 232

rhythmical activity control in embryo of (dogfish) 124, 63P

rigor mortis and chemical changes in (horse), 121, 277

slow fibres of (frog) (T) 120 54P, 121, 318

slow and twitch fibres interaction in (frog) 121 323

slow fibres innervation in (frog) 121 295 sodium and potassium exchange in (frog) 133 385

spinal cord potentials caused by afferent volleys from (cat) 125 590

stimulation effect on light diffraction by (frog) 119, 501

strength affected by repeated exertion of (man) 129 325

stretch and contraction effect on striations of isolated fibres of (frog) 124 46P

stretch effect on light scattering and diffraction by (frog) 119 489

stretch effect on sodium output from (frog) 124 242

stretch receptors effect on motoneurone discharge to (cat) 117 359

sympathetic stimulation effect on fatigue of (frog) 130 562

temperature effect on electric constants of (frog) 120 431

Skeletal muscle, temperature K ions and strophanthin effect on tracer sodium output from (frog) (T) 130, ο6P

tenson frequency relation on stimulation of nerve to (man) 125 324

tennon length curve and velocity of shortening relation in (frog), 117, 26P,

TEPP action on blood vessels of (dog) 133, 4S1

tetraethylammonium ion effect on active state of (frog), 133 414

tetraethylammonium ion on membrane of (toad), 129, 513

thermal conductivity measurement of (man and beef) 120 35P

training of (man), 130 100

transmitter release effect on action potential of (frog), 125, 549

twitch tension and action potential size relation in (rabbit) 121,  $\bar{55}P$ 

window field ineffectiveness in initiation of contraction of (frog), 125 396

Skeletal muscle action potential tetra ethylammonium ion action on (toad) 129 513

Skeletal muscle active state, amons effect on (frog), 125 17P

Skeletal muscle afferent fibres reflex effects of repetitive stimulation of 128 83P

Skeletal muscle blood flow adrenaline action on blood lactate and (man) 131, 10P

bladder distension in paraplegia effect on (man) 121 583

body warming effect on (man) (T), 129, 31P 134 613

exercise effect during release of sym pathetic tone on (man) 117 391

forearm blood flow relation to (man) 128

nicotine action on (cat), 118 41P

Skeletal muscle conduction velocity, note on 125 221 Skeletal muscle contraction adrenaline

action on (cat and rat) 116, 357 blood flow affected by (cat),

13P

monosynaptic response affected by (cat)

quinine and quinidine action on (cat and frog) 129, 412

stretch and shortening effect on tension of (various) 117, 77

Skeletal muscle denervation fibrillation following (rat) 116, 29 P

Skeletal muscle end-plate botulinum toxin and miniature potentials at (guinea pig) 134 264

electrophoretic application of tubocura rine to single (T), 132 32P

intracellular recording of activity of (frog and rat), 119 42P

Skeletal muscle extracellular water duration of soaking time effect on (frog), 121, 194

Skeletal muscle fibre stimulation effect on size of (rat) 127 528

Skeletal muscle metabolism respiration affected by (dog) 127 30P

Skeletal muscle sodium external calcium effect on, 127, 32P

Skeletal muscle spindle, spontaneous fluctuations of excitability in (frog), 122 409

Skeletal muscle stretch, monosynaptic response affected by (cat), 117, 363

Skeletal muscle twitch active state dura tion in (frog) 122, 20P

series elastic component measurement at various times during (frog), 134 527

Skeletal muscle vessels temporary arterial occlusion effect on resistance of (frog) 126 20P

Skeletal nerve-muscle, adrenalme action on (rat), 128, 619

Skeleton dietary calcium level in pregnancy and lactation effect on (sheep), 123. 69 P

SKF 525 duration of oestrogens action affected by (T), 128 24P

Skin age changes in the histamine content of (rat) 124, 157

amino acids release of histamine from perfused (cat) 124 27P

blood flow reactions in upper arm (man), 124 57P

body heating effect on venous oxygen saturation in (man), 134 444

cholinesterase and amine oxidase distri bution in (mammal) 129, 454

cholmesterase distribution in foetal and adult (man) 134, 202

cold and hot injections effect on vaso motor response of (man) 125 361

cutaneous pain responses to extracts of (man), 120 339

histamine content in different regions of (mammal), 120, 208

leukotaxine and histamine liberator affecting vascular reactions of (guinea pig) 118, 228

release by 48/80 in (dog and rat), 120 551, (cat) 121, 519

Skin, release by horse serum from (cat and dog) 118 124

role in antigen antibody reactions in (rat) 129 205

hypertonic salt injection effect or chloride of (cat), 117, 172

mast cells and histamine distribution in (mammal), 130, 28 P

pain threshold to radiations of (man), 118, 1

permeability to non electrolytes o (rabbit) 133, 171

phosphorus transfer rate into and out of (rat) 132, 10

rate of diffusional water loss through (man) 127, 18P

relative humidity and vapour pressure measurement of air near, 127 46P

sunlight protection by horny and pig mented layers of (man) 127, 236

sweat gland activity as contributory factor to heat vasodilatation in (man), 133.68 P

sweat production relation to temperature of deep (man) 127, 285

unidentified pharmacologically active substance in extracts of (rabbit), 133, 19P

sympathetic stimulation effect on touch receptor response in (frog.) 132-40

TEPP action on blood vessels of (dog),

vasodilation on indirect heating in fore arm (man), 125, 56P

vasodilator response to ultra violet light on (rabbit) 119, 17P

warmth spots in (man) 128 337

water vapour diffusion through (man)
132, 225

X irradiation effect on histamine content of (rat) 133, 508

Skin blood flow cutaneous anaesthesia effect on (man), 132 15P

forearm blood flow relation to (man) 128 263

Skin circulation body heating effect on (man) 134 613

Skin conductivity portable apparatus for measurement of 127 44 P

Skin histamine clinical disorders affecting (man) 126 286

depletion of (rat) 129 209

horse serum release of (cat and dog) 117,

neoarsphenamine and bile salt release of (dog) 116 10P

rate of recovery of (rat and dog) 117 3P remote injury effect on (rat) 119, 410

Skin oxygen consumption methyl chol anthrene influence on (T) 125, 62P

Skin permeability, essential fatty acids deficiency effect on (rat) 126, 55P

Skin receptors, direct current effect on (frog) 120 572 single fibre action potentials on stunda

tion of (cat and toad), 117-129 Skin-resistance meter constant current

type of 116, 1P Skin stretch receptors response of (frog),

133 590
Skin temperature acclimatization to heat

effect on (man), 132 563

cutaneous thermal thresholds relation to (man), 126, 191
heat transfer and cutaneous sensibility

with (man), 126 206 sweating onset and (T), 116, 10P

sweat sodium concentration affected by (man), 132 119

Skin touch receptors, acetylcholine effect on (frog) 129 17P

Skin vessels sympathectomy effect on response to adrenaline of (man), 117, 415

Sleep, adrenaline and noradrenaline content of blood affected by (man) 131, 170

alveolar carbon dioxide tension during (man), 120, 10P

alveolar carbon dioxide tension in (man)
122 71

sphineter ani externus tone during (man), 122, 606

Slow fibre membrane neuromuscular transmitter action on (frog), 132, 599 rectifying properties of (frog) 132, 592

Slow muscle electrical properties of membrane of (frog), 132, 586

Slow muscle fibres intracellular recording from (frog) (T) 128 31 P properties of (frog) 121, 318

'Slow' nerve stimulation effect on muscle fibre of (locust), 121 32P

Small intestine absorption of water and small molecules from isolated (rat) 130

alkalme phosphatase distribution in (T) 128 63 P

amino acids absorption by (rat) 121 255 (Lisomer) absorption in vitro from (rat), 120 67

netive transport by sacs of everted (golden hamster) 133 626

metabolism in titro in (rat), 130 278 autonomic drugs effect on response to electrical stimulation of (guinea pig) 120 41

Small intestine, electropotential changes of (dog) 131 147

everted sac technique for study of move ment of sub-tances across walls of (rat and hamster) 123 116

galactor absorption in (rat) 119 224 glucor absorption in (rat) 119 210 134 334

gluco-e ab-orption in in ritro preparation of (rat) 129 1

metabolic activity of (rat and hamster) 123 126

water and glucose absorption from sur viving (rat) 124 21 P

Small nerve junctional potentials (frog) 121, 289

electrotronic depolarization comparison with (frog) 132 590

membrane changes responsible for (frog) 129 9P

membrane potential variation effect on (frog) 132 599

Smell adsorption and (man) 125 458 offactors adaptation in (man) 133 301 Smoked tracings fixation of 124 49P Snakes infra red receptors in 134 47

Sodium, acetylcholine release in sym pathetic ganglion affected by (cat) 129 159

action potential relation to clamp potential affected by extracellular (calf and sheep) 127 217

adrenal ectomy effect on hypotonic saline action on cellular (rat) 121 18P

anoxic cardiac muscle affected by (rat) 117 75P

aqueous humour cerebrospinal fluid and plasma (mammal) 129 114

axon extrusion of (Sepia) 120 46P

calcium effect on giant axon permeability to (squid) 128 40 P

cardiac muscle and other tissues content of (ox) 118 276

affected by (rat) 130 615

contraction affected by (rat) 120 13P exchange of (rat) 129 177

cerebral cortex sections metabolic response to stimulation affected by (guinea pig) 117 475

cornea aerobic metabolism and movement of (rabbit) 128 43 P

crustacean muscle fibres action potentials affected by (crab) 120 180

current voltage relation in nerve in absence of (Loligo) 116 480

distrophenol effect on efflux from axon of (Sepia) 128 34

distribution in nerve of (cat) 128 473

Sodium electrical conductivity of muscle affected by intracellular concentration of (frog) 121 191

electroplate membrane potentials affected by (electric eel) 119 335

ersthrocyte and transfer of (chicken and tortoise) 125 267 (man and chicken) 129 476 (tortoise) 132 414

content under various conditions of (man) 118-43

extrusion rate of (man), 121 470

in sickle-cell anaemia and transport of (man) 129 504

potassium influx relation to efflux of (man) 134 281

fluoride effect on efflux from stomach of (cat) 133 322

gastric emptying time affected by test meal containing (man) 132 274

hexamethonium iodide effect on renal oxygen consumption and reabsorption of (rabbit) 123 4P

ionic current through nerve membrane of (Lolizo) 116 449

kidney denervation effect on slice trans port of (rabbit), 133 291

kidnes slice swelling induced by mercurial diuretic affected by (rat) 134 216

membrane potential affected by (frog)
133 644

motoneurone inhibitory post synaptic potential affected by (cat) 130 346 motoneurone membrane potential affected by injection of (cat) 130 297

nerve affected by lack of (frog), 118, 3P, (crab) 122 590

nerve exchange rate of (cat) 128 489 neuromuscular transmission affected by (frog) 118 73

Pacinian corpuscles and movement of (cat) 129 594

parotid saliva Na K ratio affected by depletion of (sheep) 131, 516

perfused nerve reaction to absence of (frog) 123 340

plain muscle responses affected by con centration of (guinea pig), 134, 257

-potassium separation in biological fluids from, 128 68 P

regional distribution in skeletal muscle of (frog) 125 232

resting muscle end plate potentials affected by (frog) 117, 120

rumen epithelium penetration by (sheep)
121 453 128 39 P

skeletal muscle containing mexchange able (frog) 131 20P

skeletal muscle exchange of (frog), 133 386

Sodium, stretch effect on output from skeletal muscle of (frog), 124, 242 sweat containing (man), 132, 115

Sodium chloride, excretion, of adminis tered (dog) (T), 127, 42 P

Sodium chloride depletion, intestinal paralysis caused by (dog), 118 154

Sodium chloride excretion carotid arteries occlusion affect on (T) 128, 18 P

Sodium conductance in nerve calculation of (Loligo), 117, 512

continuity of (Loligo), 116, 477

membrane potential effect on (Lol go) 116, 497

Sodium excretion acidosis effect in adult and young on (dog) 124 365

glomerular filtration rate acutely reduced effect on (man), 117, 218

hypothalamic lesions and renal denervation effect on (rat) 130, 9P

posterior pituitary hormones effect on (dog), 131 33 P

renal rhythm disruption effect on (man), 125, 468

22 hour day effect on pattern of (man), 133, 672

Sodium/potassium ratio, sympathetic stimulation effect on salivary (sheep), 131 22

Sodium pump, mersalyl effect on (rat), 123 1P

<sup>21</sup>Sodium space, volume in body of (cat), 128, 495

Sodium transport methods of investigation in axons of (Sepia) (T) 117, 54P

Solar ganglionectomy, slow C fibres synapsing in inferior mesenteric gan glion affected by (rabbit) 124 151

Soleus muscle fibre types in (man) (T), 119, 34 P

high heels effect on electrical activity in (man) 132, 465

posture effect on electro myography of (man) 117, 487

tibialis anterior response to adrenaline comparison with (cat) 128 14P

Somatic sensory area electric responses from (cat and rabbit) 124 256

Sorbitol, gastric emptying time affected by test meal containing (man), 132 278 perfused heart penetration by (rat) 131 531

small intestine (isolated) absorption of (rat), 130, 657

Sorbose, crythrocyte penetration by (man) 125, 171

Sound intensity, pitch relation in hearing deficiency to (man), 129 225

Soya bean inhibitor blood coagulation affected by (man), 122, 560

Species sugar distribution between cell and plasma variation with (mammal) 134 88

Spectral sensitivity, cone monochromats (man), 121, 554

tapetal reflexion correction in (cat), 119, 38

wave length discrimination in peripheral retina and (man), 119, 170

Spectral sensitivity curves, theoretical interpretation at long wavelengths of, 130, 45

Spectral threshold curves, chromato phore expansion measurement of (\(\lambda\) enopus\(\rangle\), 125, 186

Spermatocytotrophic hormone, production by testis, 131, 27P

Spermatozoa, calcium and potassium effect on motility of (mammal) 120

Spermiation gonatotrophin effect after priming dose on (toad), 125, 58P

Sperm motility apparatus for study of, 122, 1P

metabolism and measurement of (rain and bull), 133, 30P

Sphincter ani externus, electromyo graphue recording from (man) (T), 119, 41 P

electromyography of (man), 121, 49 122, 599

Sphincter pupiliae, membrane potentials of smooth muscle in (rabbit), 125, 292 Spike potential, factors affecting mote

neurone (cat), 130, 300

microelectrode measurement in spinal cord of (cat) 130, 635

potassium effect on giant nerve fibre (Loligo) 131, 352

repetitive antidromic potentials to moto neurone producing (cat), 122 446

sympathetic ganglion intracellular recording of (rabbit), 130, 575 tape recording of 126, 2P

Spinal anaesthesia analexternal sphincter tone affected by (cat) 134, 233

Spinal animal, caffeine effect on reflexes in (frog), 128, 326

Spinal cord acetylcholine action on electrical activity of (frog) (T), 120, 55 P acetylcholine close arterial injection effect on (cat), 119, 428

action potentials from nerve fibres in (cat) 130, 317

cholinergic and inhibitory synapses in (cat) 126 524

Spinal cord, cholinesters and quaternary ammonium compounds action on (frog), 129, 59 P

closs arterial injection effect on (method) (cat), 117, 1P

conduction along dorsal tracts of (frog), 122 22P 123, 324

conduction velocities in pyramidal tract m (cat) 124 386

disuse of one segment effect on adjacent egments of (cat), 121 505

dorsal root potentials relation to slow potentials in (frog) 133, 433 dorsum potentials in (frog) (T) 129 40P focal and surface potentials on antidromic activation of (frog) (T), 120 40P

mhibitory action in (cat) 130 396

mtracellular and extracellular potentials from (T) 125 14P

lateral surface and dorsal root records compared in (frog) (T) 133, 35 P

local potential gradients measurement in (T) 122 2P

lumbar root section effect on terminal degeneration in (cat) (T) 129 7P

methods for investigating activity of (T) 132, 25 P

microelectrode recording of potentials in (cat) 130 625

splanchnic-evoked potentials distribution in (cat) 132 14P

steady potentials and slow potential changes in (frog) 122 20 P

synchronization of action potentials in (frog) 121 106

Spinal cord lesions referred sensation in (T) 123 50 P

Spinal cord potentials cutaneous nerve stimulation giving (cat) 134 9P

muscle afferent vollevs causing (cat) 125 590 Spinal cord stimulation reflex activity

affected by (frog) 117 408
Spinal cord transection oviposition

affected by (hen), 128 254
Spinal interneurones unitary activity of

(cat), 131 424 Spinal man, foot blood flow affected by raised body temperature in 132, 11 P

Spinal motoneurones anatomical localization of excitation and inhibition in (cat) 133 25 P

intracellular stimulation of (cat) 134 451 studies on activation of (frog) 133 53P Spinal reflex, brain inhibitory factor effect on (cat) 130 448

caffeine action on brain affecting (frog)
128 320

Spinal reflex, caffeine effect in spinal animal on (frog) 128 326

disuse effect on (cat) 121 494

efferent nerve fibres involved in (cat)
117 164

inhibitory suppression of motoneurones in (cat) 130 396

synchronization of action potentials in (frog) 121 111

Spinal reflex activity inhibition and excitation of (frog) 117, 401

Spinal roots capillary dilator substance in (horse) 126 124

central inhibition and excitation effect on potential level of (frog) 118 361

vasodilator activity of 116 35P (horse) 118 310

Spinal root extract capillary dilatation caused by (rabbit) 125, 141

cholinesterase inhibitors effect on vaso dilator action of (rabbit) 120, 97

Spinal root potentials ether effect on (cat) 118 405

Spirometer high respirators rate use of, 119 3P

possible source of error in improved 128 47P

Splanchnic A-V oxygen difference supme leg exercise effect on (man), 133, 9 P

Splanchnic blood flow exercise effect on (man) 133 9P

Splanchnic nerve afferents thalamic representation of (cat) 133 16P

Splanchnic nerve stimulation, cerebral cortical potentials and afferent volley components on (T), 116  $\,3P$ 

parietal cortex affected by (cat) 116, 8*P*Splanchnicotomy slow C fibres synapsing
in inferior mesenteric ganglion affected
by (rabbit) 124 149

Splanchnotomy gastric motility affected by (sheep), 119 164

Spleen, 'Angiopac for radiological out lining of (T), 119, 34P

arterial pressure regulation by (dog), 122

cerebral cortex stimulation affecting blood pressure involving (cat) 129, 547

choline esters present in (ox) 121 55 megakaryocytes in (hedgehog), 121, 35 P phosphorus transfer rate into and out of (rat), 132 10

sinusal and non sinusal (mammal) 122

size and function in voung of (dog) 129

Spleen, thermal conductivity and blood flow relationship in perfused (sheep). 118, 67

vasopressin mactivation by homogenate of (rat), 132 202

Sponge eggs, movement in isolated (T), 125, 15P

miniature Spontaneous potentials, neuromuscular junction showing (rat). 133, 572

Squalene, sebum containing (man) 127. 36P

SRS-A, ileum response to (cavy), 128, 1P Staircase phenomenon, calcium action on ventricle and (frog), 128, 55P

calcium action on heart and (frog), 134, 569

ovarian hormones effect on uterus in vivo showing (rabbit) 129, 295

skeletal muscle active state and (frog) **130**. 490

Standing, renal response to motionless (man) 122, 58P

Stapes stroboscopic illumination of move ments of (man) 116, 177

Static training muscle strength affected by (man) 129, 328

Statistical factors, neuromuscular facili tation and depression involving (frog) 124 574

Statocyst, receptors in (lobster) 130 9

Steep frequency-of-seeing curves (T) 125, 31 P

Stellate ganglion, post ganglionic section effect on transmission through (rabbit) 123, 567

Stellate ganglionectomy, light induced oestrus affected by (ferret) 132 124

Stereotactic instrument, new (man) (T) 130 40P

Stereotaxic instrument fine control of electrode movement in (mammal) 129

inexpensive precision 123 15Plightweight for man monkey and cat (T) 128, 3P

Stereotaxic unit animal holder containing (T) 118 21P

pregnancy after ovariectomy Steroids affected by (rat), 130, 148

Sterols, temperature and metabolism (T) 118 5SP

Sternothy roid muscle, motor unit activity ın (rat) 130 l*P* 

Stethograph, tidal volume relation to movement of (man) 129 395

Stilbene progesterone action on uterus affected by (rabbit) 116 254

Stilboestrol, water, Na and K exerction affected by (dog) (T), 129, 82P

Stiles's theory, visual sensitivity and (Xenopus), 125 200

Stimulator, simple general purpose, 132,

transistor relaxation oscillator as, 128, 27P

with R F isolation unit (T), 128 3P Stomach blood flow effect on secretion by (cat) 121, 433

emptying time of (rat), 131 455 excitation of nervous tissue in isolated

(T), 133, 77Pfactors affecting emptying time of (man) 132, 271

glucose absorption in (rat), 134, 533 histamine profile of mucosa of different

parts of (dog) 120, 354 histamine release by 48/80 from (cat), 121,

5 hydroxytryptamine content of (dog and rabbit), 119 356

hypertonic glucose effect on rate of emptying of (rat), 134, 534

mast cells and histamine in (hog), 130, 3Pphrenic vagus anastomosis effect on (dog) 117 58P

pressure changes measurement in (man), 120, 36P

radio iodide and 35 labelled thiocyanate concentration in (mammal), 133 213 receptors in (goat), 126, 29P

stretch receptor activity affected by distension of (cat) 126 261

tension receptors in (goat), 128, 593 X irradiation effect on histamine content of (rat) 133 509

Stomach volume emptying affected by (man) 126 459

Strain-guage limb volume changes mea surement by (man) 121, l

Strength-duration curve, stretching of single nerve fibre effect on (frog) 124, 96

Stress salt depletion action as form of (dog) 118 167

thyroid activity affected by (rat), 131, 62 Stress-strain curves series elastic com

ponent in skeletal muscle twitch and (frog) 134 529 Stretch calcium deficient skeletal muscle

activity affected by (frog) 133, 107 membrane potential spike discharge and tension of tacnia coli affected by

(guinea pig) 128 204 Stretch receptors, adaptation in gastric

(cat) 126 262

Stretch receptors, extraocular muscles containing (cat and monkey), 127, 100

knee-joint containing (cat), 122, 38 motoneurone discharge affected by stimu

lation of (cat), 117, 366
tracheo and bronchi containing (cat

tracheo and bronchi containing (cat)
117, 34 P

localization of (cat), 122, 304

Stroboscopic illumination, auditory ossiele movement studied by (man), 116 175

Struggle, blood vasoconstrictor activity affected by (rabbit), 128, 523

Strychnine, auditory inhibition affected by (cat) 134, 12 P

cortical neurone discharge affected by (cat) 121, 133

mhibition of monosynaptic reflex dis charge affected by (cat), 122 480

spmal reflex activity affected by (frog) 117, 405

opmal root potentials affected by (frog), 118 366

vasodilator activity of spinal roots affected by (horse), 118 319

visual cortex specific responses and spikes of (cat) 128 54 P

Strychnine convulsions brain inhibitory factor effect on (mouse) 130 451

Strychnine potentials intracellular re cording in spinal cord of (cat), 130, 648 Strychnine spikes, intracortical excitation

of visual cortex following (cat) 129 316
specific response to visual stimuli relation
in visual cortex to (cat) 129 305

Strychnos toxifera isolated sympathetic ganglion response affected by (rabbit), 117 206

Subarachnoid space histamine absorption from (dog) 120 62P

rate of disappearance of substances in lected into (rabbit) 128 52P

Subatmospheric pressure forearm blood flow affected by exposure of forearm to (man) 125 513

heat elimination from hand during local exposure to (man) 128 58 P

toe heat loss on exposure of foot to (man)
131 5P

Vascular reactions to (man) 131 277

Subclavian lymph, protein content of (rabbit) 132 388

Subcortex local anaesthetic injection effect on (cat) (T) 129 7P

Submandibular salivary gland brady kinin and functional vasodilatation in (cat) 134 471

Submandibular gland, chorda tympani stimulation and cause of vasodilatation in, 125, 48P

functional hyperaemia in 128 11P

mechanism of functional hyperaemia in (cat) 129, 253

vasodilatation with activity, cause of (cat) 128, 235

Substance P, distribution in CNS of (dog), 126 596

drugs effect on amount in brain of (mammal) 131 617

enteramine concentrates differentiation from (horse), 120 302

separation from 5 hydroxytryptainine in extracts, of (horse), 126, 501

Substance U, factor in urine forming (dog), 133 558

Succinic dehydrogenase histochemistry of (T) 119 6P

retinal visual cells containing (various), 119 38 P

steroid hormones effect on histochemical reaction for (rat), 122, 178

Succinoxidase intracellular granules of adrenal medulla containing (ox) 129 43

Succinylcholine species differences in motor end plate reaction to (mammal), 122 242

Sucrose aqueous humour penetration by (rabbit) 122 19

gastric emptying time affected by (man), 132 271

Suggestions to authors, 116, 1

Sulphadiazine, aqueous humour penetra tion by (rabbit) 122 16

Sulphanilamide, aqueous humour pene tration by (rabbit), 122, 14

Sulphapyridine, aqueous humour pene tration by (rabbit) 122, 16

Sulphate motoneurone inhibitory postsynaptic potential affected by (cat), 130, 339

vitamin A excess effect on metabolism in embryonic bone rudiments in vitro of (chick) 134 179

Sulphathiazole histamine excretion affected by (rat) 125, 539

Sulphur dioxide cough reflex response to (cat) 123 62

Summation insect striated muscle po tentials showing (cicada), 124, 279

Pacinian corpuscle receptor potentials showing (cat), 122, 624

retina showing (frog), 119 74

Sunlight, skin protection in Africans and Europeans against (man) 127 236 Supercooling, suspended animation by (rat), 128, 554

Superior cervical ganglion, acetylcholine and other drugs action on (rat and rabbit), 132, 242

acetylcholine release in (cat), 119, 439, 131, 480

anaerobic perfusion of (cat) (T), 128, 3P axomatic synapses in (rabbit), 130, 50P blood supply to (T), 117, 19P, (mammal), 118, 528

botulinum toxin effect on (cat), 116, 9 P conduction of impulses through (rabbit), 133, 220

depolarization and block relationship in (cat) 119, 43

modification by drugs of transmission through perfused (cat), 132, 529

polarization changes produced by drugs in (rat), 128, 75P

regeneration by collateral sprouting after partial denervation of (cat), 131, 32P survival at -79° C of (rat) (T), 132, 24P

Superior colliculus, retina projection on (T), 118 5P, (goat and rabbit), 121, 44P

visual impulses in (goat), 120, 516

Superior laryngeal nerve, functional analysis of myelinated fibres of (rat), 133 420

Supraoptic nuclei, oxytocic factor output affected by anticholinesterases injection into (dog), 133, 330

vesiculated neurones in (dog) 121, 169

Supraoptico-hypophyseal tract, uterine motility affected by section of (dog), 126, 337

Swallowing, larynx elevation not occurring in (man) 126 23 P

nervous control of cervical oesophagus during (rat) 134 730

oesophageal extrinsic neural control during (rat), 132 13P

Sweat, composition of arm and of body (man), 116, 398

Dry Heat and Wet Heat effect on composition of (man), 134 207

ischaemia effect on composition of (man), 116, 405

salt concentration and rate of evaporation of (man), 123 74 P

sodium concentration in (man) 132 115 sodium concentration in thermal (man) 127 17 P

water intake in hot environments effect on production of (man) 125 61 P

Sweat composition armbag collections for study of (T), 126, 45 P

Sweat glands, age effect on activity of (man), 133, 132

cold exposure effect on (man), 122, 59 enumeration technique for active (man), 117, 51 P

European and African comparison of (man) 123 225

fatigue in (T), 123, 13P nerve supply to, 122, 61

skin electrical conductivity relation to number of active (T), 127, 45P

sweating and innervation of (horse), 133, 67P, 134 421

Sweat production, deep skin temperature relation to (man), 127, 285

Sweat rate, body temperature when heat loss is small relation to (man), 132, 17P water and salt uptake in work in hot environment effect on (man), 127, 12

water balance in work in hot environment relation to (man), 127, 29

Sweating, acclimatization to heat effect on rate of (man), 132, 562

adrenaline and noradrenaline effect on (horse), 126, 45P

age affecting response to hot environment of (man), 133, 122

blood catechol content relation with (horse), 132, 542

gustatory (man), 124, 528

patterns of (man), 116 27

raised rectal temperature with decline in (man), 129 8P

repeated exposure to heat effect on (man), 125, 15

skin temperature and onset of (T) 116, 10P

vasodilatation in forearm and (man) 134, 18 P

Sweep expander, Cossor 1049 oscilloscope use of 129 5P

Sympathectomy, adrenalme action on fore arm blood flow affected by (man) 118, 580

adrenaline action on hand blood flow affected by (man) 129, 55

'after drop' in venous occlusion plethys mography affected by (man), 131, 633 capillary filtration rate in forearm affected

by (man) 127 6P

forearm blood flow affected by venous congestion after (man) 125 503

nervous reflex vasodilatation affected by (man) 119 18 noradrenaline effect on forcarm blood

flow affected by (man) 123 446 posture effect on hand blood flow in fluenced by (man) 130 468 Sympathectomy, pulmonary arterial pressure response to sinus nervo stimulation affected by (dog) 131, 232 tkin vessels response to adrenaline affected by (man), 117, 415

Sympathetic cholinergic vasodilator fibres skin receiving (man), 134, 13P Sympathetic denervation, sensitivity of hand vessels to adrenaline affected by (T) 116, 3P

Sympathetic ganglia, acetylcholme meta bolism of axotomized (cat) 118 60P acetylcholme release in (cat), 119, 439 131 480

action potentials of isolated (rabbit), 117, 181

adrenaline action on (dog), 130 500 anaesthetics effect on metabolism of and transmission in (rat), 130 456

assessment of drug activity on para sympathetic and (T) 123 69 P

brain inhibitory substance action on (cat) 129, 387

cation exchanges in (mammal) 121, 629 cell relations in lumbar (man) 122, 16P exteamine effect on (cat) 126 16P ion exchanges in (rat and rabbit) 120 45P intracellular potentials recording from (rat) 128, 29P 130, 572

magnesium ions effect on acetylcholine release from (cat) 120 53P

metabolism of normal and denervated (cat) 130 156

metabolic substrates in (rat), 133 52 P pilocarpine and histamine potentiation of responses to stimulation of (cat), 129, 337

potassium exchange in axotomized (rat and rabbit), 121 638

potential changes in (T) 124 15P presynaptic facilitation in (cat) 117 61P post ganglionic axotomy effect on (cat), 127, 603

sodium concentration relation to acetyl choline release in (cat) 129 159 temporation of

temperature effect on acetylcholine release from (cat), 124 26P, 132 239

Sympathetic reflexes, hypothalamic lesions effect on (cat) 131 403

Sympathetic stimulation, bradykının ın sahvary gland with (cat) 134 476 colon response to (rabbit) 128 561

gastric secretion and blood flow affected by (cat) 121 438

neuromuscular facilitation by (frog) 130, 559

parotid secretion affected by (sheep), 131,

Sympathetic stimulation, skin touch receptor response affected by (frog), 132, 40

Sympathetic vasodilator nerves, hand containing (man) 131, 647

Sympathin central nervous system distribution of (dog) 123, 451

Sympatholytic drugs, adrenal gland affected by 118 37P

Sympathomimetic amines denervated heart rate affected by (cat), 124 17

denervation effect on nictitating mem brane response to (cat), 118 34P

depression of nervous conduction by (T), 124, 9P

Sympathomimetic substances nicti tating membranc denervated and de centralized affected by (cat) 124 25

Symphysis publis hormones in pregnance after ovariectomy effect on (mouse) 134 2P

Synaptic delay sensors neurones in lateral geniculate nucleus showing (cat), 134 551

Synaptic potentials, intracellular re cording of motoneurone (cat) 117 441 sympathetic ganglion intracellular re cording of (rabbit), 130 577

Synovial fluid elastoviscosity of (T) 118, 24P

hyaluronic acid function in (ox), 119 244 hyaluronidase action on hyaluronic acid in (ox), 119 253

Systemic blood flow, indicator dilution technique for continuous determination of total (dog) 133 44P

Systolic and diastolic blood pressures, indirect measurements in conscious animals of (dog), 122 68 P

Systolic pressure continuous recording of diastolic pressure and (T), 121 13 P electrical method of measurement of (rat), 121 163

Tabes dorsalis, circulatori reflexes in (man), 134 1

Tachyphylaxis, low sodium effect on (T), 123 2P

sodium concentration effect on (guinea pig), 134 259

Tactile nerve fibres size and response of (toad and cat) 117, 131

Taenia coli dinitrophenol effect or (gumea pig) 127, 626

membrane potentials in plain muscle of (guinea pig) 125, 302

membrane potential, spike discharge and tension in (guinea pig) 128 200

Taenai coli, tension, work and ATP changes in (guinea pig) 128, 38 P

Tail, circulation in (monkey) 122, 570vasomotor changes recording in (rat) (T) 124, 10P

Tape recorder slow potential changes by (T), 129, 39 P

Tapetal reflexion, visual functions affected by (cat) (T), 118, 43P

Tapetum spectral reflectivity of (cat) 119, 30

Taste, impulse pattern of (T), 129, 43 P
Tectal fibres reticular substance termi
nation of, 118, 51 P

'Teepol' ileum activity affected by (guinea pig) (T) 130, 8P

Teeth, eruption rate of (rabbit), 128 74P Telcothene tubing optical cuvette for blood eximetry in (T) 116, 3P

Temperature ACh effect on superior cervical ganglion affected by (rabbit) 132 250

ACh output from sympathetic ganglion affected by (cat), 132, 239

active state duration in muscle affected by (frog) 124 609

anaphylaxis inhibition by raised (guinea pig), 132, 30P

carbox haemoglobin equilibrium affected by (sheep), 126-373

carotid sinus receptors for pressure affected by (cat) 130 516

duodenal electropotentials affected by (dog) 132, 107

end plate potential affected by (cat) 132

foot blood flow affected by (man) 124, 345 forearm and hand blood flow affected by repeated exposure to high (man) 125 5 giant nerve fibre impulse after affects affected by (Loligo) 131 358

Harderian glands affected by changes in (mouse), 129 3P

hibernation effect on body fat composition reaction to low (hamster and rat) 126, 235

ileum (isolated) responses affected by (guinea pig) 131 7P

isolated auricle refractory period affected by (guinea pig and rabbit) 132 618

kidney cortex slices composition affected by (rat and guinea pig) 130 440

knee joint blood flow affected by (dog), 132 379

lymphocyte count affected by (man), 124 66P

miniature end plate potentials affected by (cat) 132 64 (rat) 132 654

Temperature, non medullated nerve action potential affected by (rabbit), 134, 713 potassium action on skeletal muscle affected by (frog), 134, 505

rate of flow in perfused isolated ear affected by (rabbit), 128 610

respiratory changes during fall in (man) (T), 131, 30P

salivary secretion of potassium affected by (dog), 132, 34

skeletal muscle volume change with changes in (frog), 119, 369

4sodium efflux from axon affected by (Sepia), 128, 42

sodium transfer in erythrocytes affected by (tortoise), 132, 421

tail circulation affected by changes in (monkey), 122, 576

visual threshold affected by (Xenopus), 125, 192

Temperature end organs pain threshold of (man) 118, 9

Temperature receptors, facial pit organ receptors compared with (snake) 134,80 Temperature regulation, hot and cold

infusions effect on (man), 125, 361 range of (marsupial) 127 4

Temporal summation post totanic

potentiation and (cat) 131, 32
Tench visual pigments in, 116 257

Tendon afferent nerve fibres from (cat)
117 158

Tendon stretch receptors, monosynaptic response affected by activity of (cat) 117 370

"Tensilon" decamethonium action in myasthenia gravis affected by (man) 122 254

Tension-frequency relation ulnar nerve stimulation and (man) 125 324

Tension-length curve velocity of shortening relation to (frog) 120 214

Tenuissimus muscle structure of (cnt)
133 35P

TEPP circulatory effects of (dog) 133 478 esterase in normal and post heparm plasma affected by (dog and man) 127 303

poisonous action of and atropine anta gonism to (cat) 116 202

Renshaw cell activity affected by (cnt) 131 162

respiration affected by (rabbit) 126 52
Testis phosphorus transfer rate into and out of (rat) 132 10

spermatocytotrophic hormone production by interstitual cells of (mouse) 131 27 P

- Test meal gastric emptying affected by volume of (T), 120, 23 P
- rathe secretory response to volume varia tions of (man) 117, 289
- Temus, neuro muscular transmission restoration after tubocurarine by (cat),
- utrate effect on tension developed in (frog) 126 160
- slow muscle fibres depolarization in (frog), 121 307
- voluntari contraction of muscle com pared with maximal (man) 123 553
- Tetrabutylammonium crustacean muscle fibres action potentials affected by (crab) 120 193
  - nerve affected by (crab), 122 594
- Tetraethylammonium, cerebral blood flow affected by (mammal) 133 14
- crustacean muscle fibres action potentials affected by (crab) 120 189
- motoneurone affected by injection of (cat) 130 297
- motoneurone inhibitory post synaptic potential affected by (cat) 130 349
- muscle action potential affected by (tond) 129 513
- nerve affected by (crab), 122 593
- skeletal muscle active state affected by (frog) 133, 414
- Tetraethylpyrophosphate, motor end plate depolarization by (cat), 124, 325
- Tetralogy of Fallot artificial ductus arteriosus in (man) 130 186
- Inalamic nucleus, motor cortex neuronal mhibition by stimulation of (cat) 133,
- Thalamus cortical neuronal responses facilitation by stimulation of (cat) 131,
- cutaneous sense representation in (cat) (T) 126 37P
- tensorimotor cortex relation to 118
- skin stimulation effect on units in (cat and monkey), 118 48P
- Thermal balance (man) 129 72P
- Thermal burns delayed pain of (T) 128
- Thermal circulation index, instrument for measuring 125 6P
- Thermal conductivity internal calori metry in determination of (rat and rabbit), 118 54
- Thermal sweating, sites of (man) 116 27 Thermocouples reference junction for
  - ten small with low stem errors 129 1P

- Thermometer, regional differences and times for equilibration of, 127, 57P
- Thiamin visual path integrity dependence on (rat) 116 23P
- Thigh muscles afferent impulses from (cat), 122 462
  - posture effect on electromyograph of (man) 126 81
- Thiocynate aqueous humour cerebro spinal fluid and plasma (rabbit) 129 116
  - aqueous humour penetration by (rabbit). 122 16
  - foetal maternal 121I ratios affected by (mammal) 132 367
  - motoneurone inhibitory post synaptic potential affected by (cat) 130 331
  - gland concentration of #58 salıvarı (mammal) 134 189
  - stomach concentration of 35S labelled (mammal) 133 213
- Thiomerin sodium and chloride ions effect on kidney slice swelling induced by (rat), 134 216
- Thiourea aqueous humour cerebrospinal fluid and plasma (rabbit) 129, 116
  - aqueous humour penetration by (rabbit), 122 14
- skin permeability to (rabbit) 133, 174
- Thiouracil, collagen content of thy roid gland affected by (rat) 125 51
  - thyroid uptake of radio iodine affected by (rabbit), 120 289
- Third nerve conduction rate in (goat) 120 475
- Third nerve nucleus responses to stretch ing of eye muscles in (goat) 120 492
- Thoracic cage haemorrhage effect on blood flow in (dog) 121, 80
- Thoracic cage circulation, haemorrhage effect on (dog) 117 64P
- Thoracic compliance anaesthetized para lysed subjects and (man) 133 22P
- Three-dimensional conductivity-tank model of heart and thorax (man) (T). 119. 34P
- Threshold retinal position and area in fluence on absolute (T) 124 69P
- Thrill patent ductus arteriosus in new born causing (sheep) 128 350
- Thrombin, generation in normal blood of (man) 122 543
  - thromboplastin formation affected by (man) 119 97
- Thromboplastin factors concerned in formation of (man), 122, 540
  - formation in shed blood of (man), 119, 89

Thromboplastin, isolation from plasma of (man and cow), 132, 164

Thromboplastic substances, action of (man), 122, 554

Thymus weight, body weight in adoles cence and early maturity relation to (mouse), 125 316

Thyratron neurone behaviour of 127, 172

Thyroepiglottic joint, mechanism of (rat), 126, 509

Thyroid gland, adrenaline effect on <sup>131</sup>I uptake by (rabbit), 131, 85 afferent fibres from (rat), 133, 428

colloid content of (guinea pig), 126, 48P cortisone effect on uptake of radio iodine by (rabbit), 120 292

gonadal hormones effect on secretion of (rabbit) 127, 390

heat exposure effect on activity of (mouse), 128, 49P

131 Iodine uptake and output of (rabbit),
126, 11

131 Iodine uptake by (rabbit), 120, 278, 127, 328

liver amine oxidase affected by (rat and rabbit), 116, 46P

measurement of activity of (rabbit) 126, 1 pituitary stalk section effect on (ferret) 131, 108

skin histamine affected by secretion of (man) 126 289

thiouracil effect on collagen content of (rat) 125, 51

Thyroid gland activity ACTH and adrenal steroids effect on (rat and rabbit) 131 58

adrenal cortex influence on (rabbit), 126

cold effect on (rat) 131, 52

gonadal function and (rat and rabbit), 131 70

hypothalamo hypophyseal connexions role in (rabbit) 131 137

measurement and experimental modification of (rabbit) (T) 120 59P

stress effect on (rabbit) 126, 29

thyroxine injection into adenohypo physis effect on (rabbit), 131 127

Thyroid hormone early metabolic effects of (rat), 129, 45P salivary glands effect on distribution of

(rat), 133 603 Thyrotrophic hormone 131 Iodine output

of thyroid gland affected by (rabbit)
126, 17

131 Iodine uptake by thyroid gland affectedby (rabbit) 127 337

Thyrotrophic hormone, thyroxine and trinodothyramine as inhibitors of secretion of (rabbit) 127, 352

Thyroxine, embryonic bone growth in control affected by (chick), 127, 427 embryonic limb bones in tissue culture a

affected by trundothyronine and by (chick), 133, 96 foetal uptake after maternal injection of

(rabbit), 133, 181

131 Iodine output of thyroid gland affected
by (rabbit) 126, 19

131 Iodine uptake by thyroid gland affected by (rabbit), 127, 337

metabolism of radio active (rabbit), 127,

metabolism of truodothyronine and (rat), 125, 405

thyroid activity affected by injection into adenohypophysis of (rabbit), 131, 127 thyroid uptake of radio iodine affected by

(rabbit), 120, 291 thyrotrophic hormone secretion inhibition by (rabbit), 127, 352

trundothyronine metabolism differences from that of (rat) (T), 126, 39 P Tidal air, carbon dioxide effect in infants on

(man) 122 268

haemorrhage effect on (dog), 116, 39 reflex changes in (cat) 118, 40 P

Time marker and vibrator inexpensive, 117 43 P use with sweep expanders of 129,

38 P
Tissue chloride method of estimation of,
128 65 P

Tissue culture mass, concentration and thickness of living cells in (chick and small), 129 25P

oestrogens action on vagina in (mouse)
131 497

Tissue embedding, modified ester wax for (T) 126, 11 P

Tissue fluid, posture effect on face (man) 130 72

Tissue histamine 5 hydroxytryptamine and (rat) 132 40P

Tissue mast cells, histamine in (mammal), 120, 528

Toe, passive movement appreciation affected by local anaesthesia of (man), 123, 56P

Toe heat loss subatmospheric pressure on foot effect on (man) 131, 5P

Tolazoline hypogastric nerve uterus pro paration affected by (rabbit) 132, 94

T 1824 blood volume measurement by (guinea pig) 132 469

Icague, arterio venous anastomoses in (mammal) 118 18P

and cells in (mammal) 118 53P hpriossal nerve afferent impulses on ch of (cat) 126 32P

muscles of muscles of (man and monkey) 122 193

mov nerve endings other than taste bris m (man) 121 33P

Tome muscle afferent fibres size and response of (toad and cat) 117 153

Tooth mechanoreceptors in (rabbit), 126

ਜੀ ਸ਼ਬਰੀਦਰ acid and alkaline phosphatase m developing (rat) 130, 7P

Tooth enamel fluorine distribution in (man) 121 21P

Toposcope twelve-channel transportable 124, 51 P

Torpedo marmorata complex patterns from electric lobe of (T) 117 QP

Torsion swing semicircular canal response to (rav) 117 334

Tortolse circulation and respiration in 130 51 P

Touch reaction time to (man) 123 187 Touch receptors acetylcholine effect on (froz) 129 17P 133 243

the ch effect on response of (frog) 133

mpathetic stimulation effect on response in skin of (frog) 132 40

Touch thresholds significance of (man) 123 198

Toxaemia of pregnancy induction of (theep) 126 40P

Toxiferin isolated sympathetic ganglion response affected by (rabbit) 117

Trachea mechanoreceptors rapidly adapt mg m (cat) 118 46P

recep ors (cat), 123 71

respiratory reflexes from stimulation of (cat) 123 58

Fretch receptors in (cat) 117 34PTracheobroncial mechanoreceptors localization of (cat) 123 89

Tracheobronchial stretch receptors localization of (cat) 123 77

Tracheotomy intrathoracie pressure affected by (dog) 126 313

Training muscle strength affected by (man) 129 325

reaction time to touch affected by (man) 123 190

Transfusion stored ervthroevtes electro lyte reversal on (man) 129 639

Transistors use as d c amplifiers of (T) 130 1P

Transitional epithelium fate of trans plants of (T) 128, 63P

Transmural pressure calf blood vessels reaction to increase in (man) 134 666 forearm blood vessels response to high

123 76P

vascular reactions to (man) 131 277

Transplanted eggs maternal influence on (T) 125, 15P

Trapezoid body acoustic stimulation with pure tones effect on response of (cat), 122 158

response characteristics of frequency single units in (cat) 120 9P two tone inhibition in (cat) 129 15P

Tremor ischaemia effect on (man) 123 23P

Tributyrin ali-esterase muscle denerva tion effect on (guinea pig) 116 163

Trichloroacetic acid paper chromato graphy of thyroxine interference by (T), 128 69P

Trichlorethylene baroreceptor discharge affected by (cat) 131 465

Tridecamethonium action on motor endplate of (cat and chick) 122 244

Trigeminal nerve pupil constriction by antidromic stimulation of (rabbit) 123

Triiodothyronine embryonichmb bones in tissue culture affected by (chick) 133

metabolism of thyroxine and (rat) 125

thyrotrophic hormone secretion inhibition bv (rabbit) 127 352

Triode valve sensors units response in semicircular canal illustrated by (ray) 117 339

Tritanopia bright light producing artificial (man) 122 339

Trophoblastic materials lungs in preg nanct containing (man) 118 40P

Tropical conditions urmary excretion of 17 ketosteroids affected by (T) 116

Tropics blood haemoglobin concentration affected by (man) 123 10P

Trunk flexion erector spinae muscles activity in (man) 129 190

Trypsin blood coagulation affected by (man) 122, 560

Tryptamine carotid sinus receptors affected by (cat) 123, 278

cutaneous pain responses to (man), 120 344

Tryptamine, ileum movements affected by (guinea pig), 124, 228

metabolites of (rat), 127 124

pain producing action of (man), 117, 70P pigment formation by amine oxidase action on (rat and guinea pig) 122, 420

Tryptamine derivatives, enzymic oxidation of (various) 122, 403

Tryptamine receptors, 5 hydroxytrypt amine and (guinea pig) 119, 363

Tubocurarine, acetylcholine action on sensory nerve affected by (cat) 119, 125 acetylcholine action on superior cervical ganglion affected by (rabbit), 132, 251 acetylcholine stimulation of carotid sinus

receptors affected by (cat), 130, 524

anaphylactic shock comparison with (guinea pig) 118 462

decamethonium block in atrophied red muscle affected by (cat) 124 434

electrical activity of brain after intra ventricular injection of (cat), 132, 130 electroencephalographic patterns follow ing intraventricular injection of (cat) 130 35 P

esterase in normal and post heparin plasma affected by (dog and man) 127

histamine release by (man) 120 150 ileum movements affected by (guinea pig), 124, 228

lateral ventricle injection of (cat), 123,

miniature end plate potentials affected by (rat) 132 651

oesophagus muscle affected by (rat), 123, P

potentials in isolated sympathetic ganglia affected by (rabbit) 117 197

post tetanic restoration of neuromuseular transmission after blocking by (cat) 118 216

respiratory centre affected by (cat) 117

TEPP action on motor end plate affected by (cat) 124 336

Tungsten micro-electrode intracellular pH measurement by (crab) 120, 31P intracellular pH of muscle measurement by (crab) 126 169

Turbinate deodorizing action of epi thelium of posterior (sheep) 130 548

Turbulence nortic blood flow showing (rabbit) 118 340

Turn-table semicircular canal responses to (ray) 117 337

Twitch interaction between muscle fibres during (cat and man) 124 311

2268 F, botulinum toxin effect on response of gut to (mammal), 127, 462

Tymbal, movements of (cicada), 124 281 Tymbal muscle, response to stimulation at various frequencies of (cicada) 124, 274

Ultrasonic absorption, measurement of tissue (T), 127, 28 P

Umbilical artery, placenta perfusion through (sheep), 120, 22 P

Umbilical cord, foetal venous pressures affected by occlusion of (sheep) 128 387

measurement of blood flow in (guinea pig) (T), 118, 56P

Umbilical cord occlusion, foetal heart rate affected by (gumea pig), 120, 541 Umbilical vessels, oxygen saturation at

birth in (T), 119, 41 P

Umbilical vessels perfusion sugar transfer at placenta studied by (sheep) 129, 367

Underventilation, ductus arteriosus in new born affected by (sheep) 132 319

Ungulates, foetal blood fructose in (mammal) 132 149

Urea arm and body sweat containing (man) 116, 398 gastric emptying time affected by test

meal containing (man) 132, 277

plasma clearance by sweat of (man) 134
212

secretion by kidney of (rat) 120, 11 P small intestine (isolated) absorption of (rat) 130 657

Urecholine duodenal acid effect on gastric acid secretion promoted by (dog) 130 246

Ureter, factors affecting activity of (water buffalo), 129 425

fluid flow through (dog), 128 82P movements of rabbit's (Film) (T) 119 41P

pressure in intact (mammal), 129-436 Urethane heart minute rhythmic con tractile waves stimulated by (mammal)

120, 41PUrine carbon dioxide excess effect on (man) 118 6P

environmental factors effect on composition of (marsupial) 127 2

phosphorus transfer rate into (rat) 132

solute output changes effect on osmolarity of (dog) 129 69P

substance U forming factor in (dog) 133
558

The trora rone preparation from (man) 129 525 = == and composition in voung and E3 cf (dog) 129 628 Incognitive renal excretory rhythm dismation effect on (man) 125 469 Thre and, source of (T) 127 42P Ince antidiuretic activity supra-optico בֹין בייבו כי mulation effect on (man) 122 33P Urms flow a real stretch receptors effect ෆ (ල්ලා) 131 5~2 curvid sinus reflex affecting (cat) 117 InP day the hm (m 12 hr evele of activity) (年期) 117-24 tap mary activity effect on uterine morements and (dog) 126 329 Fire changes effect on (man) 132 61P day effect on pattern of (man) 133 659 Transe on with (dog) 122 55PUrine mucoproteins isolation and esti 125 44 P Unine nutrogen, incested energy relation to (~ ) 127 ±83 Unite osmolarity G.F.R. fall during water durests effect on (dog) 131 Unne phosphate para-hy-oid hormone €550 b (mouse) 130 79 Urine porphyrins lead treatment in during (rabbit) 119 5P Cunometer antidurenc responses re corded by (ra-) 126 3P Crogastrone, gastre and panereauc sometions affected by (cat) 123 I bramme induced gastine secretion inhi brion or (rat) 131 15P treparation and properties of (man) 125 63P Feparation by new method of (man) 129 528 Lierine activity unne flow ramation with (dog) 122 56P Lterme motility two hypothalamic strems controlling (rabbit) 133 77P Lterme movements post-pituiter eart on time flow and (drg) 126 329 Lterme muscle strouth-dwarm relate n of (rabbr) 126 3-5 Lierine pressure. STREET PROPRIE CERTIFIC director proportion 124. 148

Uterus administration and process and results

ortal loss after era r . earl preprie : )

Programmers reduced 154 6 B

(ma) 130 253

Uterus, 48 80 effect on anaphylactic con traction of (guinea pig) 118 473 histaminase content of (rat) 119, 288 histaminase content of deciduomata in (rat) 117 37P histamine acetylcholine inhibition in 150 lated (rat) (T) 120 63P hormones action on collagen of (mouse), 128 16P hypogastrie nerve preparation (rabbit) 132 92 innervation of different parts of (rabbit) 117 317 insulin oestrone and progesterone interaction on isolated (rat) 128 113 investigations of contractility of (man) (T) 118, 13P length tension studies in (rabbit) 126. 390 menstrual cycle and contractions of (man) 132 553 oestrogen influence on response to stimu lation in rim of (rabbit) 129 295 oestrogen progesterone antagonism (rabbit) 116 246 oes rone and insulin effect on metabolism of isolated (ra\*) 122 40P ovariectomy effect on activity of (dog) 126 331 oxvocin and vasopressin action on (cow and sheep; 124 58P post-partum collagen loss from (rat) 132 502 post-partum involution effect on collagen of (ra-) 128 50P potassium gradient and threshold relation in (rabbit) 133 145 pregnaner effer on collagen distribution in (rat) 132 492 sodnum comerniration effect on response to drugs of (guinea-pig), 134, 257 sur ral after freezing to -79 C in almostol Priget of (guinea-pig) (T) 123 67 P Vagina, overtrogens action in tissue culture on (m/nse) 131 497 or upont on afforted by ansembetization of them) 128, 253 mortral portron of (rabbit) (T), 127 31P Vaginal smear lip d in (guinea pig) (T) 123 2P pregname effect on blood in (rat) 129 25Plagotomy gasine motility affected by (sheep), 119 157 pulsonari ar enal response to smus nerve stumulation affected by (dog) 131, 232

Vagotomy, respiratory responses after (cat) (T), 129, 31 P

Vagus nerve, atrial stretch receptors action on urine flow affected by cooling of (dog), 131, 579

cold effect on conduction in fibres of (cat), 130, 64

conduction velocity in single afferent fibres in, 117, 40 P

conduction velocities of respirators and cardiovascular afferent fibres in (cat), 121, 341

duodenal acid inhibition of gastric secre tion dependence on (dog), 128, 39 P 130, 233

lustological changes after section at different levels of (cat), 120, 584

medulla stimulation effect on rumen mediated by (sheep), 128, 584

non medullated afferent C fibres in (rabbit), 134 174

stimulation effects after section at different levels of (cat) 120 582

structural and functional changes after degenerative section at different levels in (T) 117, 20 P

Vagus nerve section, liver blood flow affected by (rat) 123 581

Vagus nerve stimulation cardiac extra sounds affected by (dog) 122 140

intra ocular pressure affected by (cat) 134 396

phrenic nerve discharges affected by (cat) 117, 17

ventilation hindrance components in lungs affected by (cat) 131 396

Valsalva's manoeuvre tabes dorsalis affecting results of (man) 134 2

Vascular resistance arterial flow pattern in relation to (rabbit), 125 36P

Vascular tonus pressure volume changes in the femoral tree in relation to (cat) 130 414

Vas deferens drug antagonisms on (guinea pig) (T) 123 2P

Vasoconstriction critical closing pressure of limb vessels affected by (frog) 133 23 P

lumbar sympathetic chain stimulation causing reflex (man) 127 134

sympathetic innervation in pyrogen induced ear (rabbit) 126 319

transmural pressure resulting in (man) 125 513

Vasodilatation bradykının formation in local (cat) 129, 253

capacity of forearm blood vessels affected by (man) 131 299 Vasodilitation, sympathectomy effect on nervous reflex (man), 119, 18

Vasodilated hand, nerve block effect on blood flow in reflexly (T) 120, 59 P

Vasodilator substance chorda stimula tion liberation of stable (cat) 128, 243 spinal roots containing 116 35P, (horse) 118 313

Vasomotor axon reflexes, skeletal muscle and (cat), 123, 289

Vasomotor centre, diffusion respiration effect on activity of (cat and dog), 133 368

respiratory regions in medulla relation to (sheep), 126, 86

Vasopressin, adrenalectomy effect on fat in body of (rat), 124, 59 P

dehydration and role of (rat) (T) 128 59P

excretion rate of (man), 122, 225

histomine induced gastric secretion inhibition by (rat), 131, 15P

mactivation by tissue homogenates of antidiuretic activity of (rat), 132 199 kidney and liver mactivation of (rat) 124

35 P, 126 116

mechanism of mactivation by kidney homogenates of, 127, 39P

Vasopressor/oxytocic ratio, lactation effect on post pituitary (dog) 120 142 Vasopressor substance intracellular

localization in pituitary of (rat) 127 203

Vectorgraph extracellular currents in gn v matter recording by (frog) 129, 35P

Veins activity of lateral tail (monkey) 128 36P

hydroxytryptamine effect on (man) 118

laminar flow in (mammal) 124 631 streamline flow in (rabbit) 126, 5P

Velocity of shortening tension length curve relation to (frog) 120 214

Velocity profiles pulsatile arterial flow and (dog) 128 632

Vena cava laminar flow in (mainmal) 124 633

Venous blood oxygen content venous pressure effect on deep forearm (man) 133 255

Venous cannula permanent (dog) (T) 128 37 P

Venous congestion forearm blood flow affected by (man) 125 501

heat elimination from fingers affected by (man) 127 12P

vasoconstriction following (man) 123

Venous distension, blood inflow to fore arm affected by (man), 125, 525

forearm blood flow affected by (man), 124, 40P

Venous occlusion oxygen content of fore arm venous blood during (man), 125, 57P

Venous occlusion plethysmography, 'after-drop' significance in (man), 131

rature of after drop in tracing from (man), 127 aP

Venous oxygen content raised venous pressure effect on forearm (T) 125 57P

Venous oxygen saturation arm position effect on (man) 129 281

reactive hyperaemia effect on forearm (man) 134 195

Venous pressure, atrial receptors sensitive to (cat) 120, 598

Bambridge reflex and (dog) 130 692

blood oxygen content in deep forearm vems affected by (man) 133 255

forearm blood flow during raised (man) 125 41 P

orvgen content of deep forearm venous blood affected by (T) 132 3P

lenous return cardiac extra sounds affected by (dog) 122, 139

partition of (T) 120 29P

third heart sound relation to (man) 116

Venous shunt, heavy exercise and pul monary (man) 125 129

lentilation, barometric pressure reduction effect on maximum voluntary (man) (T) 119 29 P

blood pressure response to aortic and sinus nerve stimulation affected by degree of (cat), 132–181

methods used in investigation of group requirement for thermal comfort and (T) 127 45 P

pulmonary vascular resistance in new born affected by (sheep) 121 146

respiratory resistance effect on maximum voluntary (T) 119 29 P

Ventilation rate body temperature in exercise effect on (man) 129 554

chest and diaphragmatic movements relation to (man) 124 203

h-patectomy effect on (dog) 119 133 oxygen carbon dioxide mixtures effect on

(man) 127 508

orvgen effect in light exercise on (man) 125 66P

premature infant (man) 116 163 Fork per cycle relation to (rat) 127 160 Ventilatory capacity prediction from fast vital capacity records of maximum (man), 122 78 P

Ventilatory efficiency, single breath tech nique in measurement of (man), 134, 631

Ventral root motoneurone activity on de stimulation of (cat) 126, 496

potential level and motor action potential in (frog), 118 367

vasodilator activity of (horse), 118, 313

Ventral root potential acetylcholine close arterial injection effect on (cat) 119 433

ether effect on (cat), 118, 406

polarization effect on (frog) (T), 129, 40P

reflex activity relation to (various), 116, 385

Ventral root stimulation, spinal inter neurones response to (cat), 131, 430

Ventricle acetylcholine liberation from (H L) 131 318

potassium effect on action potential of (turtle) 132, 157

staircase phenomenon and calcium action on (frog) 128, 55P

Ventricular fibrillation, factors affecting (rabbit) 133, 62P

method of study in isolated heart of (T) 133, 6P

Ventricular flutter amarın and adrenalıne producing (T), 118, 6P.

Venular resistance circulation model affected by 127 366

Veratramine denervated heart rhythm affected by (cat) 124, 40P

Veratridine pulmonary stretch receptor activity affected by (cat) 125, 343

Veratrine pulmonary and cardiovascular vagal receptors affected by (cat) 121 184

Veratrosine denervated heart rhythm affected by (cat), 124 40 P

Vertebral artery occlusion carotid sinus pressure affected by (dog), 117, 61

Vertebral circulation, vascular connexions with carotid circulation of (mammal) 117 67

Vesiculated neurones hypothalamus con taining (dog), 121 167

Vestibular sense endings, galvanic stimu lation effect on (T) 125 31 P

Vestibulo-ocular reflexes class demon stration of (T) 118, 5P

Vibration receptors statocyst containing (lobster) 130 24

Vierordt method oxygen consumption of tail measurement by (rat) (T), 125, 51 P

Virgin evocation of milk formation in (rabbit) (T) 126, 11P

milk formation in (rabbit) 126 54P

Visceral receptors, method of locating (cat) 124 166

Visceromotor reflexes, decerebrate and spinal preparations differences in (cat), 117 9P

Viscous drag pulsatile arterial flow and (dog) 128 634

Vision, area summation in colour receptive pathways in (man) 124, 400

cone monochromatism effect on (man) 121 548

potentials in nerve cord on stimulation of (locust), 117, 58 P

quantum fluctuations and uncertainty at absolute threshold of (T), 129, 62P

spatial summation at the absolute threshold of peripheral (man) 116 32P spectral sensitivity and wave length dis

crimination in peripheral (man) 119

steep frequency of seeing curves in (man) 126, 404

subjective brightness and size in the central fovea in (man), 123 315

variation in latent period of (man) 122 12P

of the conger eel 133 56P

'Visual attention' α rhythm and (man), 120 155

Visual acuity colour effect on (man) 124 402

Visual area electrical responses from (cat and rabbit) 124 259

Visual cells dark reactions in suspensions of (frog) 123 386

light sensitive pigment in (frog), 123 377 narrow band pigment in (frog) 123 396

Visual cortex eye muscle stretch giving responses in (goat) 120, 519

organization of (cat) 124 23P

strychnine spikes and intracortical excitation of (cat) 129-316

strychnine spikes and specific responses in (cat) 128 54P 129 305

Visual discrimination apparatus fo testing (cat) 116 45P

Visual path thiamin deficiency effect on (rat) 116 23P

Visual pigment 467 nature of (tench) 116 257

Visual pigment 510 retina containing (bleak) 128 141

Visual pigment 519 \(\lambda\) corpus lacris spectral sensitivity correlation with (T) 118 43 P

Visual pigment 533 retina containing (bleak), 128, 145

Visual pigment 550 retina containing (bleak) 128 151
Visual pigments (rainbow trout), 129

60P (rainbow front), 129

analysis of (Xenopus) 125, 25

homogeneity tests for (1), 116 52P homogeneity tests on (gurnard and

conger) 133 56P modulator like properties of (toad), 122,

narrow band found by new technique (frog) 122, 13P

non homogeneity of (rainbow trout) 134, 624

recovery after bleaching in retina of (cat), 122, 324

retina containing (carp) 125, 607, (bleak), 128 131

spectral sensitivity of chromatophore expansion compared with that of (Xenopus) 125 196

Xenopus retinal photoreceptors containing 134 327

Visual pigment regeneration after bleaching (carp) 125, 620

Visual purple' (man) (T) 120 62P apparatus for measurement in eve of (man) (T) 125, 15P

average absorption of light in retina by (frog) 127 87

dark and light adapted eye difference in (man) 116, 354

measurement of density in eye of (T)

122 9P

mechanism of extractants of, 128 53P new forms of (marine fishes), 119 400 retinal density of (man) (T) 128 24P

Visual reaction time α rhythm and (man), 118 500

Visual rods method for observation of dichroism of (Salamandra maculosa)
124 16P

orientation of molecules in (Salamandra maculosa) 124 17P

Visual sensitivity chromatophore (\square\ pansion measurement of (\square\ lenopus) 125 185

Visual system functional stability of (\lambda enopus) 125 204

Visual thresholds absolute (man) 123

chromatophore expansion measurement of (Acnopus) 125 188

In I violet. See Porphyropsin iral reliow fluoride effect on breakdown '(froz) 123 390 আল্লেল্ডা time factor in expiration of man) 122 77 P num A bone in ritro growth affected "excess of (chick and mouse) 116 dem development in tissue culture 45-c ed by (chick) 119 470 protein combination with (fowl) 116 342 (chick) 134 179

hate metabolism of embryonic bone raiments in vitro affected by excess of

imin B<sub>1</sub> absorption of (mammal) (T) 121 22P -imm extrusion rate from ervithrocytes in permicious anaemia affected by

(man) 121 474 min D rickets in relation to intake of thrtate milk and (man) (T) 125 64 P amin E oxygen poisoning affected by frat) 131 200

Tren toxicity affected by deficiency of (rat) 121 47P reous body penetration of substances m o (rabbit) 129 118 reous humour bicarbonate content of aqueous plasma and c.s r compared with (mammal) 132 454

inge clamp axon membrane investi gation by use of (Loligo) 116 426 imbrane current affected by (Loligo) 117 504 Castium equilibrium potential in giant Lorve fibre affected by (Loligo) 131

tage-time integral, electronic circuit for measuring 123 28P untary contraction, motor unit acti vity in (man) 125 322 niting, new conception of the organiza

tion of the central mechanism of (T)

116 10P

(ra+) 130 655

mth sensation radiation showing variability of threshold of (man) 128

skin temperature mth threshold effect on (man) 126 194 er excretion rate in young and adult of (dog) 129 628 irment permeable to water vapour but unpermeable to 127 58P nall interine (isolated) absorption of

affected by intake of (man), 125, 61P Water absorption, phlorhizin action on (rat), 134 683 Water balance, pregnancy effect on (rat)

Water, sweating in hot environments

125, 48P sweat rate in work in hot environment relation to (man), 127 29

Water diuresis, adrenalme and acetyl choline central antagonism on (dog) 131, 712 adrenal medulla influence on (rat), 118.

486 electrolytes excretion in (T) 128 S4P extracellular volume decrease effect on (dog) 124 41P urine osmolarity affected by fall in G.F R during (dog) 131 307

Water excretion, hyperpnæa and renal (man) 129 73P Water intake, hypothalamic control of (goat) 129 44P work in hot environment affected by

(man) 127 11 Water load, urine flow recording and main tenance of constant (rat) (T) 117 22P Water metabolism aspects in Australian marsupial of (T) 124 40Penvironmental factors effect on (Marsu

pial) 127 1 pregnancy effect on (rat) 134 655 Water transport, inhibition in in vitro preparation of 128 81P

in vitro technique for study in intestine of (T) 128 66P Wavelength, colour of light of very long (man) 130 35

Weight lifting erectores spinae muscles activity in (man) 129 193 West African troops water requirements during exercises of (T) 122 79P

Wet Thermal Box, sweating induced in (man) 134 208 Whale general histology of foetal tissues of

(T) 120 22P White cell count, hypotherma effect on (rat) 128 452

White muscle decamethonium action on (cat) 124 418 Work and efficiency, a class experiment on (T) 124 51P

Writer's cramp, apparatus for retraining of writing in, (T) 132 53P

Xanthophvll, macular pigment and (man), Xenopus, DC electrical stimulation of lateralis organs of 134 408

Xenopus, retural structure of (T), 118, 18P

visual pigments in, 125, 25, 134, 327

X-irradiation, tissue histamine affected by (rat), 133 506

X-ray, amines protective action against (mouse), 118 24P

cholmesterase of intestine affected by (rat), 116, 5P

X-ray, skin histamine content affected (man), 126, 290

Zinc deficiency, male genital sympaffected by (rat), 129, 53P

Zinc, egg volk containing (chicken), 1 13P

Zuckerkandl, function of organs of (ma 116, 6P